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ABSTRACT

The references included were drawn from the documents received and processed to date by the ERIC Clearinghouse on Educational Facilities, and are organized into the following sections--(1) indoor physical education facilities, (2) outdoor physical education areas and facilities, (3) indoor and outdoor physical education areas and facilities, and (4) recreation areas and facilities. (Author)

ED035266

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EF 004 034

AREAS AND FACILITIES FOR PHYSICAL EDUCATION AND RECREATION

An Interpretive Bibliography

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
OFFICE OF EDUCATION

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ED035266

AREAS AND FACILITIES FOR PHYSICAL EDUCATION AND RECREATION

An Interpretive Bibliography

Prepared By

Frank L. Smoll

Project Assistant

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ERIC Clearinghouse on Educational Facilities

The University of Wisconsin

Madison, Wisconsin

January, 1970

FOREWORD

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The references contained herein do not represent an exhaustive compilation of publications on the subject. However, many of the documents are not widely circulated; and the bibliography serves to disseminate this information.

Howard E. Wakefield
Director

January, 1970

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AREAS AND FACILITIES FOR PHYSICAL EDUCATION AND RECREATION

	Pages
INDOOR PHYSICAL EDUCATION FACILITIES	1-47

The first nine references deal with the planning and design of various types of indoor physical education facilities including gymnasiums, special activity facilities, swimming pools, locker and shower rooms, physical education offices, and equipment storage rooms (pages 2-10). The remainder of this section contains citations for publications specifically concerned with the planning, design, and operation of gymnasiums (11-24), field houses (25-31), swimming pools (32-43), and lockers (44-45), and the maintenance of gymnasiums and locker rooms (46-47).

OUTDOOR PHYSICAL EDUCATION AREAS AND FACILITIES	48-73

Information regarding the planning, design, and construction of various types of outdoor physical education areas and facilities is included in the references presented on pages 49-59. The references on pages 60-65 treat topics related to playground areas and equipment. The use of asphalt surfaces and artificial turf for outdoor physical education areas are the topics of the references on pages 66-71 and 72-73 respectively.

INDOOR AND OUTDOOR PHYSICAL EDUCATION AREAS AND FACILITIES	74-86

The planning, design, and construction of both indoor and outdoor physical education areas and facilities are dealt with in the first six references presented in this section (75-80). The latter six are primarily concerned with space guidelines and specifications for indoor and outdoor physical education areas and facilities (81-86).

RECREATION AREAS AND FACILITIES	87-95

The references presented in this section are concerned with the planning and design of recreation areas and facilities including the use of school facilities for recreation purposes.

INDOOR PHYSICAL EDUCATION FACILITIES

ERIC/CEF DOCUMENT NO. EF001292 ED 17146 DISPOSITION-EDC- 1

PLANNING THE INDOOR PHYSICAL EDUCATION FACILITIES

BY- HASE, GERALD J. AND HICK, BASIL L.
STATE UNIVERSITY OF NEW YORK, ALBANY

PUBLISHED- 62

062 PAGES

DESCRIPTORS - *ATHLETICS, *HYGIENE, *PHYSICAL EDUCATION, *SAFETY, *SCHOOL DESIGN, DESIGN NEEDS, GYMNASIUMS, RECREATIONAL ACTIVITIES, SANITATION, SPACE REQUIREMENTS, STATE STANDARDS

THIS PAMPHLET IS DESIGNED TO HELP ARCHITECTS AND LOCAL SCHOOL OFFICIALS IN THE PREPARATION OF PLANS FOR PHYSICAL EDUCATION FACILITIES IN NEW AND EXISTING BUILDINGS. FACILITIES MENTIONED INCLUDE--(1) GYMNASIUM, (2) SWIMMING POOL, (3) SMALL GROUP ACTIVITY ROOM, (4) DRESSING AND SHOWERING ROOMS, (5) TEAM ROOM, (6) EQUIPMENT DRYING ROOM, (7) LAUNDRY ROOM, (8) CLASSROOM, (9) PHYSICAL EDUCATION OFFICES, AND (10) APPARATUS AND SUPPLY STORAGE. SPECIAL MENTION IS MADE OF GYMNASIUM LOCATION, FLOOR SPACE AND TREATMENT, AND A COMPARISON OF BOYS' AND GIRLS' DRESSING AND SHOWERING ROOMS. OTHER CONSIDERATIONS INDICATED WERE--(1) TEACHING STATIONS, (2) TOILETS, (3) BULLETIN BOARDS, AND (4) ELECTRICAL INSTALLATIONS. FLOORPLANS ARE PROVIDED SHOWING THE LAYOUT FOR VARIOUS SPORTS. (MM)

Order from EDRS as: ED 17146

MF $0.25 HC $0.88

ERIC/CEF DOCUMENT NO. EF003427 DISPOSITION-UFRC 1

A GUIDE FOR PLANNING INDOOR FACILITIES FOR COLLEGE PHYSICAL EDUCATION

BY - CRAWFORD, WAYNE H.

PUBLISHED - 1963

164 PAGES

DESCRIPTORS - *ARCHITECTURAL ELEMENTS; *COLLEGE PLANNING; *FACILITY GUIDELINES; *GYMNASIUMS; *PHYSICAL EDUCATION FACILITIES; BUILDING DESIGN; COLLEGE BUILDINGS; EDUCATIONAL PLANNING; LOCKER ROOMS; RECREATIONAL FACILITIES

FOLLWING A GENERAL CONSIDERATION OF THE FUNCTIONAL ASPECTS OF PLANNING FACILITIES AND THE RELATIONSHIP BETWEEN PROGRAM AND FACILITIES, A DETAILED PRESENTATION IS MADE OF PLANNING BUILDINGS FOR COLLEGE AND UNIVERSITY INDOOR PHYSICAL EDUCATION ACTIVITIES. RECOMMENDATIONS ARE MADE WITH REGARD TO DESIGN, STRUCTURAL AND FUNCTIONAL FEATURES OF AUXILIARY GYMS, SPECIAL ACTIVITY AREAS, SOCIAL AND RECREATION FACILITIES, AND SERVICE FACILITIES. IN CONSIDERING FACILITIES COMMON TO ALL INDOOR AREAS (SURFACES, LIGHTING, ACOUSTICS, ETC.), ARGUMENTS PRO AND CON ARE PRESENTED PERTAINING TO COMMONLY USED MATERIALS AND THEIR APPLICATION. ALSO INCLUDED IS A CONSIDERATION OF USUAL ERRORS IN PLANNING AND CONSTRUCTION. (FS)

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ERIC/CEP DOCUMENT NO. EF000879 DISPOSITION-CERS 3

SHELTER FOR PHYSICAL EDUCATION (A STUDY OF THE FEASIBILITY OF THE USE OF LIMITED SHELTERS FOR PHYSICAL EDUCATION)

BY- WAGNER, WILLIAM G. AND EVANS, BEN H. AND NOWAK, MATTHEW A.
A AND M COLLEGE OF TEXAS, COLLEGE STATION, TEXAS, ARCHITECTURAL RESEARCH GROUP OF THE TEXAS ENGINEERING EXPERIMENT STATION

PUBLISHED- 61

066 PAGES

DESCRIPTORS- *GYMNASIUMS, *PHYSICAL EDUCATION, *PHYSICAL EDUCATION FACILITIES, * SCHOOL DESIGN, ATHLETICS, CLIMATE CONTROL, DESIGN, EXTRAMURAL ATHLETIC PROGRAMS, INTRAMURAL ATHLETIC PROGRAMS, OUTDOOR EDUCATION, PHYSICAL RECREATION PROGRAMS, THERMAL ENVIRONMENT

A REPORT IS PRESENTED REGARDING VARIOUS DESIGN, STRUCTURAL AND FUNCTIONAL FEATURES OF LIMITED SHELTERS FOR PHYSICAL EDUCATION AT THE PRIMARY AND SECONDARY SCHOOL LEVELS. LIMITED SHELTER REFERS TO THE USE OF NATURAL OR MANMADE DEVICES TO PROTECT THE HUMAN BEING FROM THE EXTREMES OF THE NATURAL ELEMENTS. IT IS A FACILITY THAT NOT ONLY AFFORDS PROTECTION FROM CLIMATIC EXTREMES, BUT ALSO CAPTURES AND UTILIZES THE DESIRABLE ELEMENTS OF OUR NATURAL ENVIRONMENT AND CREATES A STIMULATING BACKDROP FOR PHYSICAL EDUCATION ACTIVITIES. (FS)

Availability:

Publication Department
Texas Engineering Experiment Station
A. & M. College of Texas
College Station, Texas 77840

ERIC/CEF DOCUMENT NO. EF003874 DISPOSITION-EDC 1

SECONDARY SCHOOL DESIGN: PHYSICAL EDUCATION

DEPARTMENT OF EDUCATION AND SCIENCE, LONDON, ENGLAND

PUBLISHED - 1965

IN - BUILDING BULL - 26

033 PAGES

DESCRIPTORS - *BUILDING DESIGN; *FACILITY GUIDELINES; *GYMNASIUMS; *PHYCIAL EDUCATION FACILITIES; *SWIMMING POOLS; FACILITY REQUIREMENTS; PHYSICAL FACILITIES; SCHOOL BUILDINGS; SCHOOL DESIGN

CURRENT TRENDS IN PHYSICAL EDUCATION IN SECONDARY SCHOOLS IN ENGLAND ARE ANALYSED IN RELATION TO THE DESIGN OF INDOOR PHYSICAL EDUCATION FACILITIES. SPACES NEEDED FOR THE STUDY OF MOVEMENT IN DANCE AND MODERN GYMNASTICS ARE OUTLINED; AND THE INDOOR PROVISIONS NECESSARY FOR GAMES, ATHLETICS, CONTESTS, SWIMMING ARE DISCUSSED, WITH COMMENTS ON THE DIMENSIONS, WALL AND FLOOR FINISHES, LIGHTING AND HEARING REQUIRED. THE BALANCE OF ACCOMMODATION IS CONSIDERED WITH SPECIAL ATTENTION TO JOINT USE BY THE SCHOOL AND THE COMMUNITY. DIAGRAMMATIC ILLUSTRATIONS SUPPLEMENT THE DISCUSSION THROUGHOUT. (FS)

Availability:

Will be reported in RIE, 1970

British Information Services
845 Third Avenue
New York, New York 10022 ($0.66)

ERIC/CEF DOCUMENT NO. EF001155 DISPOSITION-EDC- 2

SCHOOL DESIGN

BY- ERWIN, CLYDE A.
NORTH CAROLINA STATE BOARD OF EDUCATION, RALEIGH, DEPARTMENT OF PUBLIC INSTRUCTION

PUBLISHED-AUG52

053 PAGES

DESCRIPTORS- *CLASSROOM DESIGN, *FACILITY GUIDELINES, *SCHOOL DESIGN, *SCHOOL PLANNING, *SITE DEVELOPMENT, BUILDING DESIGN, DINING FACILITIES, LIBRARIES, PHYSICAL EDUCATION FACILITIES, SCHOOL ACTIVITIES, SCIENCE LABORATORIES, SITE ANALYSIS, SPACE UTILIZATION

THIS GUIDE TO BASIC PRINCIPLES OF SCHOOL DESIGN PRESENTS DIAGRAMMATIC EXPLANATION OF VARIOUS DEVELOPED STANDARDS AND PLANNING SUGGESTIONS. THE FIRST SECTION SCHEMATICALLY DEVELOPS PATTERNS OF SCHOOL ACTIVITY FOR PRIMARY, ELEMENTARY, AND HIGH SCHOOLS. THE SECOND DISCUSSES ORGANIZATION OF ACTIVITIES ON--(1) CONTOUR ADJUSTMENT, (2) LANDSCAPING, (3) OUTDOOR LANDSCAPE LABORATORIES, (4) BUILDING COMPLEX EXPANSION, AND (5) SITE IMPROVEMENT. THE LAST SECTION COVERS BUILDING DESIGN DATA IN TERMS OF ARCHITECTURAL CRITERIA SUCH AS ARTICULATION, AS WELL AS DEVELOPING SPECIFICATIONS FOR--(1) PRIMARY, ELEMENTARY, AND HIGH SCHOOL CLASSROOMS, (2) ADMINISTRATION, (3) LIBRARIES, (4) SCIENCE ROOMS, (5) HOME ECONOMICS, (6) AGRICULTURAL SHOP, (7) LUNCH ROOM, AND (8) PHYSICAL EDUCATION FACILITIES. (MH)

Availability:

North Carolina Dept. of Public Instr.
Division of School Planning
Raleigh, North Carolina 27602

ERIC/CEF DOCUMENT NO. EF000102 DISPOSITION-CERS 3

BOWLING FACILITIES IN SECONDARY SCHOOLS

BRUNSWICK CORPORATION. ENGLEWOOD CLIFFS, NEW JERSEY. MARKETING RESEARCH DEPARTMENT

PUBLISHED- 65

158 PAGES

DESCRIPTORS- *RECREATIONAL ACTIVITIES, *RECREATIONAL FACILITIES, *PHYSICAL EDUCATION, *COMMUNITY RECREATION PROGRAMS, RECREATION, SECONDARY EDUCATION, EXTRAMURAL ATHLETIC PROGRAMS, INTRAMURAL ATHLETIC PROGRAMS

THIS REPORT DELINEATES THE CURRENT STATUS OF BOWLING AT THE SECONDARY SCHOOL LEVEL AND IDENTIFIES THE PERTINENT CONSIDERATIONS EXCERCISING AN INFLUENCE UPON THE FUTURE INSTALLATION OF ON-CAMPUS LANES. FOLLOWING A CONSIDERATION OF BOWLING AS A CARRYOVER SPORT, INFORMATION IS PRESENTED REGARDING THE NATURE AND CONDITION OF EXISTING BOWLING FACILITIES IN EDUCATIONAL INSTITUTIONS. FACTORS PERTAINING TO INSTALLATION OF ON-CAMPUS LANES ARE ANALYZED. (FS)

Availability:

Brunswick Corporation
Bowling Division
Marketing Research Department
Englewood Cliffs, New Jersey 07632

ERIC/CEF DOCUMENT NO. EFC02419 DISPOSITION-UFRC 3

A THEATRON FOR MONTICELLO

02. STARKEY W.F.

BY- 09 AND AMER ASSN OF JUNIOR COLLEGES, 1777 MASS AVE, N.W., WASHINGTON, D.C. 20036

003 PAGES

DESCRIPTORS - *BUILDING DESIGN, *PHYSICAL EDUCATION FACILITIES, *THEATERS, GYMNASIUMS, SWIMMING POOLS

DESIGN, STRUCTURAL, AND FUNCTIONAL FEATURES ARE DESCRIBED FOR MONTICELLO JUNIOR COLLEGE'S THEATRON -- A BUILDING THAT INCLUDES A THEATER AND PHYSICAL EDUCATION FACILITIES (SWIMMING POOL AND GYMNASIUM). (FS)

Availability:

American Association of Junior Colleges
1777 Massachusetts, N.W.
Washington, D.C. 20036

ERIC/CEF DOCUMENT NO. EF003146 DISPOSITION-EDC 1

WHAT WENT WRONG. MAINTENANCE AND OPERATION ERRORS TO AVOID IN EDUCATIONAL FACILITY PLANNING

COUNCIL OF EDUCATIONAL FACILITY PLANNERS, COLUMBUS, OHIO

PUBLISHED-JUL68

247 PAGES

DESCRIPTORS- *FACILITY GUIDELINES, *PHYSICAL DESIGN NEEDS, *SCHOOL ENVIRONMENT, *SCHOOL MAINTENANCE, *SCHOOL PLANNING, CLASSROOMS, ENVIRONMENTAL INFLUENCES, EQUIPMENT, FOOD HANDLING FACILITIES, HEALTH FACILITIES, HOUSING, INSTRUCTIONAL MATERIALS CENTERS, LABORATORIES, PHYSICAL EDUCATION FACILITIES, SITE DEVELOPMENT, SPATIAL RELATIONSHIP, THEATERS, TRAFFIC PATTERNS, UTILITIES

AREA-BY-AREA DISCUSSIONS OF THE COMPONENTS OF NEW EDUCATIONAL BUILDINGS AND THE PROBLEMS THAT CAN OCCUR ONCE A BUILDING IS IN USE ARE PRESENTED, METHODS TO BE USED IN AVOIDING FUTURE MAINTENANCE AND OPERATION TROUBLES ARE ALSO INCLUDED. EMPHASIZED THROUGHOUT IS THE RESPONSIBILITY OF THE EDUCATIONAL FACILITY PLANNER TO LEARN AS MUCH AS HE CAN ABOUT THE BUILDING HE CONTROLS. PLANT PLANNING SHOULD NOT BE CARRIED ON WITH PRECONCEIVED NOTIONS OR LACK OF INFORMATION. (RK)

Order from EDRS as: ED 31045

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ERIC/CEF DOCUMENT NO. EF000838 DISPOSITION-EDC- 2

BUILDING MATERIALS STANDARDS WHICH REFLECT LONG-TERM MAINTENANCE AND OPERATIONS SAVINGS

BY- CORWIN, RALPH G.
ASSOCIATION OF SCHOOL BUSINESS OFFICIALS, EVANSTON, ILLINOIS

PUBLISHED-OCT62
IN- PROCEEDINGS, ASSOCIATION OF SCHOOL BUSINESS OFFICIALS OF THE UNITED STATES AND CANADA, 48TH ANNUAL MEETING AND EDUCATIONAL EXHIBIT, DALLAS, TEXAS, OCTOBER 15-19, 1962

008 PAGES

DESCRIPTORS- *BUILDING MAINTENANCE, *BUILDING MATERIALS, *DESIGN NEEDS, *OPERATING EXPENSES, *SCHOOL DESIGN, ATHLETIC EQUIPMENT, BUILDING EQUIPMENT, BUILDING OPERATION, FLOORING, HEALTH, PAINTING, ROOFING, SAFETY, SCHOOL CONSTRUCTION, STRUCTURAL BUILDING SYSTEMS

BUILDING MATERIALS USED IN SCHOOL CONSTRUCTION ARE AN IMPORTANT FACTOR IN DETERMINING INITIAL AND OPERATING COSTS OF THE BUILDING. THIS PRESENTATION PROVIDES A SERIES OF EXAMPLES OF MATERIAL AND EQUIPMENT APPLICATIONS IN SCHOOL DESIGN, AND INDICATES COST SAVINGS IN MAINTENANCE AND BUILDING PERFORMANCE. EXAMPLES INCLUDE AREAS SUCH AS--(1) DOOR AND WINDOW FRAMING, (2) ROOFING AND FLOORING, (3) FENCING AND LANDSCAPING, (4) TOILETS AND LOCKER ROOMS, (5) STAIRS, CORRIDORS, AND SIGNS, (6) ATHLETIC FACILITIES. IN COMPARISON WITH CODES AND STATE STANDARDS, THIS ARTICLE PROVIDES SUGGESTIONS FOR SPECIFIC MATERIALS AND ITEMS OF EQUIPMENT AND EXPLAINS THE DESIGN JUSTIFICATION.

Availability:

Assn. of School Business Officials
1010 Church Street
Evanston, Illinois 60201

ERIC/CEF DOCUMENT NO. EF000431 DISPOSITION-CERS 2

DEVELOPMENT OF A GLASS GYMNASIUM

BY- CAUDILL, WILLIAM W.
CAUDILL, ROWLETT, SCOTT AND ASSOCIATES ARCHITECTS-ENGINEERS
BRYAN, TEXAS

PUBLISHED- 57
IN- RESEARCH REPORT, 10

009 PAGES

DESCRIPTORS- *ARCHITECTURE, *DESIGN, *PHYSICAL EDUCATION, *PLAYGROUNDS, CLIMATE CONTROL, BUILDING DESIGN, SCHOOL ARCHITECTURE

THIS REPORT DISCUSSES THE GENERAL PLANNING AND DEVELOPMENT OF THE GLASS-ENCLOSED GYMNASIUM OF THE MOORE JUNIOR HIGH SCHOOL IN TYLER, TEXAS. THE GYMNASIUM IS TO BE USED AS A FUNCTIONAL INSIDE PLAY AREA. THE CHARACTERISTICS OF THE BUILDING ARE--NO BUCKS OR MASONRY WALLS, SLOPING ROOF TO KEEP THE SUN OFF THE WALLS, SEPARATE VENTILATING DUCTS FOR THE GYMNASIUM FLOOR AND DRESSING ROOMS, OVERHEAD PLASTIC SKYLIGHTS, AND GLASS WALLS TO PROVIDE HIGH LEVEL NATURAL ILLUMINATION.

Availability:

Caudill, Rowlett and Scott Architects
3636 Richmond Avenue P.O. Box 22427
Houston, Texas 77026

ERIC/CEF DOCUMENT NO. EF002929 DISPOSITION-EDC 2

TILT-UP MEN'S GYMNASIUM SUITS SPORTS AND SPECTATORS

BY - MORROW, JOHN

PUBLISHED - AUGUST 1967

IN - AMERICAN SCHOOL AND UNIVERSITY; V39 N12 P29, 46 AUGUST 1967

002 PAGES

DESCRIPTORS - *ARCHITECTURAL ELEMENTS; *BUILDING DESIGN; *FACILITY CASE STUDIES; *GYMNASIUS; *PHYSICAL EDUCATION FACILITIES; ARCHITECTURAL CHARACTER; COMPONENT BUILDING SYSTEMS; DESIGN PREFERENCES ; LOCKER ROOMS

DESIGN, STRUCTURAL, AND FUNCTIONAL FEATURES ARE DESCRIBED FOR THE MEN'S GYMNASIUM AT EL CAMINO COLLEGE, CALIFORNIA. EMPHASIS IS GIVEN TO THE TILT-UP PANELS COMBINED WITH FACE BRICK AND PORCELAIN ENAMEL FASCIA TO FORM THE UNIT'S EXTERIOR. DESCRIPTIONS ARE INCLUDED OF AREAS INTENDED FOR PHYSICAL EDUCATION ACTIVITIES AND FOR SPORTS EVENTS, THE STORAGE AND EQUIPMENT ISSUE ROOM FOR ATHLETIC TEAMS, AND THE LOCKER ROOM FACILITIES. CONSIDERATION IS ALSO GIVEN TO FACILITIES FOR SPECTATORS AT ATHLETIC EVENTS. PHOTOGRAPHS OF THE GYMNASIUM ARE INCLUDED. (FS)

Availability

Buttenheim Publishing Corporation
757 Third Avenue
New York, New York 10017

ERIC/CEF DOCUMENT NO. EF000439 DISPOSITION-CERS 2

HOW TO BUILD SIX GYMS -- ON BUDGET

BY- MC GOWAN, W. C.
AMERICAN SCHOOL BOARD JOURNAL

PUBLISHED-MAY66

003 PAGES

DESCRIPTORS- *ATHLETIC FACILITIES, *GYMNASIUMS, *PHYSICAL EDUCATION FACILITIES, EDUCATIONAL FACILITIES, RECREATIONAL FACILITIES, PHYSICAL FACILITIES

SIX GYMNASIUMS WERE BUILT WITH ONE PLAN AND ONE CONTRACTOR AT A COST WHICH WAS BELOW THE NATIONAL AVERAGE ON SCHOOL GYMNASIUM CONSTRUCTION. A BASKETBALL COURT WITH SEATING FOR 1000 SPECTATORS WAS PROVIDED IN EACH. LOCKER ROOMS, SHOWERS, OFFICES, AND MECHANICAL, STORAGE, BAND, AND CHORAL PRACTICE ROOMS WERE INCLUDED. LOW COST DRAW CURTAINS SEPARATED BOYS' CLASSES FROM THE GIRLS' CLASSES. INTERIOR WALLS WERE PAINTED WITH EPOXY EXCEPT SHOWER ROOMS WHICH WERE GLAZED TILE. HEAVY DUTY ROOFING WAS INSTALLED. EACH GYM COST $250,000 AND 20,640 SQUARE FEET WERE CONSTRUCTED IN EACH.

Availability:

American School Board Journal
1233 Central Street
Evanston, Illinois 60201

DESIGNED FOR PARTICIPATION

BY- BISCHOFF DAVID C.

PUBLISHED-MAR66

AVAILABLE FROM- JOHPER, AAHPER, 1201 SIXTEENTH ST., N.W., WASHINGTON 6, D.C. 20036

OC4 PAGES

DESCRIPTORS- *GYMNASIUMS, *SCHOOL ARCHITECTURE, *SCHOOL DESIGN, *STATE UNIVERSITIES, ACOUSTICAL ENVIRONMENT, DESIGN NEEDS, FLEXIBLE FACILITIES

THE BAYDEN GYM AT THE UNIVERSITY OF MASSACHUSETTS WAS DESIGNED FOR INSTRUCTION AND RECREATION FOR 2,500 MALE STUDENTS. IT HAS FOUR FLOORS, EACH OF WHICH IS OVER AN ACRE IN SIZE. STAIRWELLS ARE LOCATED ON THE OUTSIDE OF THE BUILDING, THEREBY REDUCING EXCESS NOISE. THE MAIN FLOOR IS FLEXIBLY PLANNED. THE BASEMENT HAS MULTIPLE USES. THE FIRST FLOOR IS PRIMARILY A LOCKER AREA, AND THE SECOND FLOOR HAS OFFICES AND CLASSROOMS. FLUORESCENT LIGHTING AND TRANSLUCENT WINDOWS ARE USED. A TUNNEL PROVIDES PEDESTRIAN ACCESS TO THE BUILDING.(LD)

Availability:

AAHPER
1201 Sixteenth Street, N.W.
Washington, D.C. 20036

ERIC/CEF DOCUMENT NO. EF001656 DISPOSITION-EDC- 2

THREE-UNIT COMPLEX COMBINES GEOMETRICS, ATHLETICS, ESTHETICS

PUBLISHED-APR68
IN- COLLEGE AND UNIVERSITY BUSINESS, VOL. 44, NO. 4, APRIL 1968

2 PAGES

DESCRIPTORS- *AUDITORIUMS, *GYMNASIUMS, *PHYSICAL EDUCATION FACILITIES, ARCHITECTURAL CHARACTER, BUILDING DESIGN, CAMPUS PLANNING

DESCRIPTION OF AN AUDITORIUM-GYMNASIUM BUILDING COMPLEX AT COLORADO STATE UNIVERSITY. THE STRONG BUILDING FORM RESULTS FROM ESTABLISHMENT OF CAMPUS INTEGRATION AND EXPRESSION OF IMPORTANT FUNCTIONAL AND STRUCTURAL ELEMENTS. USAGE OF STRONGLY EXPRESSED STRUCTURAL STEEL, JUXTAPOSITION OF FORM ELEMENTS, AND IMAGINATIVE CIRCULATORY PROGRAMMING CONTRIBUTE TO THE UNIQUE DESIGN CONCEPT. A FLOOR PLAN, EXTERIOR PHOTOGRAPH, AND CONSTRUCTION DATA ACCOMPANY THE TEXT. (MH)

Availability:

McGraw-Hill
1050 Merchandise Mart
Chicago, Illinois 60654

ERIC/CEF DOCUMENT NO. EF000309 DISPOSITION-CERS 4

ARMCO BUILDING SYSTEMS FOR SCHOOL FACILITIES

ARMCO BUILDING SYSTEMS, MIDDLETOWN, OHIO

IN- ARMCO STEEL CORPORATION, MIDDLETOWN, OHIO

022 PAGES

DESCRIPTORS- *FACILITIES, *SCHOOL DESIGN, *COMPONENT BUILDING SYSTEMS , SCHOOLS, MOBILE CLASSROOMS, AUDITORIUMS, GYMNASIUMS

THIS BROCHURE DESCRIBES VARIOUS DESIGN AND STRUCTURAL FEATURES OF ARMCO BUILDING SYSTEM'S PRE-ENGINEERED STRUCTUAL COMPONENTS (INTERLOCKING RIBBED STEEL WALL PANELS AND ALUMINIZED STEEL ROOFS). EMPHASIS IS GIVEN TO THE USE OF THE COMPONENTS IN GYMNASIUM CONSTRUCTION. (FS)

Availability:

Armco Steel Corporation
Metal Products Division
Middletown, Ohio 45042

ERIC/CEF DOCUMENT NO. EF001425 DISPOSITION-EDC- 2

PREVIEW OF A NEW STUDY (EFL TAKES A LOOK AT AUDITORIUMS)

BY- GRAVES, BEN E.
RESEARCH COUNCIL OF THE GREAT CITIES PROGRAM FOR SCHOOL IMPROVEMENT, CHICAGO, ILLINOIS

PUBLISHED-AUG66
IN- NEW LIFE FOR OLD SCHOOLS NEWSLETTER NO. 10

4 PAGES

DESCRIPTORS- *AUDITORIUMS, *GYMNASIUMS, *HIGH SCHOOLS, *SCHOOL IMPROVEMENT, SCHOOL DESIGN, SCHOOL EXPANSION

ST. LOUIS' ROOSEVELT HIGH SCHOOL IS THE SUBJECT OF THIS NEWSLETTER REPORT. THIS 42-YEAR OLD AUDITORIUM AND GYMNASIUM WAS REMODELED TO FACILITATE THE NEEDS OF ITS CURRENT STUDENT ENROLLMENT AND FACULTY. ITS 2,100 SEAT AUDITORIUM WAS NOT SUFFICIENT TO HOLD THE 3,000 MEMBER STUDENT BODY. CONVERSELY, IT WAS MUCH TOO LARGE FOR ANY EFFECTIVE TEACHING PURPOSES. THE HALL'S MAIN FLOOR SEATS 1,460, BUT ITS GENERAL STAGE WAS SELDOM USED AND DOUBLED AS A PHYSICAL EDUCATION SPACE. THE 644 SEAT BALCONY WAS VIRTUALLY DORMANT. A MORE EFFICIENT AUDITORIUM, ADDITIONAL CLASSROOM SPACE, LARGE GROUP LECTURE ROOMS, A LITTLE THEATER, AND A GYMNASIUM WERE ALL BADLY NEEDED. A CAREFUL ANALYSIS BY ARCHITECTS PRODUCED A BOLD PROPOSAL THAT FULFILLED ALL REQUIREMENTS. THE STUDENT CAPACITY WAS INCREASED BY 480 PLACES, AND THE SLIGHTLY USED AUDITORIUM WAS DIVIDED INTO A HIGHLY ACTIVE GROUP OF SPACES WHILE THE ORIGINAL DIGNITY OF THE BUILDING WAS RETAINED. (RH)

Availability:

Educational Facilities Laboratories
477 Madison Avenue
New York, N. Y. 10022

ERIC/CEF DOCUMENT NO. EF000676 DISPOSITION-EDC- 3

THE REMODELING OF CENTRAL JUNIOR HIGH SCHOOL

BY- CONSTIEN, GEORGE R.
ASSOCIATION OF SCHOOL BUSINESS OFFICIALS, CHICAGO, ILLINOIS

PUBLISHED- 65
IN- PROCEEDINGS, ASSOCIATION OF SCHOOL BUSINESS OFFICIALS OF THE UNITED STATES AND CANADA, 50TH ANNUAL MEETING AND EDUCATIONAL EXHIBIT, SAN FRANCISCO, CALIFORNIA, OCTOBER 17-22, 1964

006 PAGES

DESCRIPTORS- *BUILDING IMPROVEMENT, *BUILDING MATERIALS, *CONSTRUCTION PROGRAMS, *JUNIOR HIGH SCHOOLS, *SCHOOL CONSTRUCTION, AUDITORIUMS, CONSTRUCTION COSTS, CONTROLLED ENVIRONMENT, GYMNASIUMS

THE PRESENT STATE OF DEPRECIATION IS DESCRIBED FOR A HIGH SCHOOL BUILDING AND A DETAILED OUTLINE IS GIVEN FOR A PROGRAM OF REMODELING AND RENNOVATION TO CONVERT THE BUILDING FOR USE AS A JUNIOR HIGH SCHOOL. THE OUTLINE INCLUDES THREE MAJOR SECTIONS--(1) ENGINEERING AND CONSULTANT SERVICES, (2) CONSTRUCTION HISTORY, AND (3) REMODELING DETAILS. THE DETAILS INCLUDE THE SCOPE OF THE WORK AND CONTRACTORS FOR--(1) OUTSIDE DOORS, (2) GYMNASIUM FLOOR, (3) HEATING AND VENTILATING, (4) ROOF AND SKYLIGHTS, (5) PLUMBING, (6) ELECTRICITY, (7) PAINTING, (8) AUDITORIUM AND (9) SITE DEVELOPMENT. ADDITIONAL INFORMATION IS PROVIDED ON BUILDING MATERIALS, CONSTRUCTION COSTS, AND A BRID ATION IS PROVIDED ON BUILDING MATERIALS, CONSTRUCTION COSTS, AND A BRIEF EVALUATION OF THE WORK DONE. (MM)

Availability:

Assn. of School Business Officials
1010 Church Street
Evanston, Illinois 60201

ERIC/CEF DOCUMENT NO. EF001070 DISPOSITION-CERS 3

MINIMUM AREAS FOR SECONDARY SCHOOL BUILDING FACILITIES

PENNSYLVANIA STATE DEPARTMENT OF PUBLIC INSTRUCTION, HARRISBURG, BUREAU OF BUILDING CONSTRUCTION, HARRISBURG

PUBLISHED- 66

005 PAGES

DESCRIPTORS- *AUDITORIUMS, *CLASSROOMS, *DINING FACILITIES, *FACILITY UTILIZATION RESEARCH , *INTERIOR SPACE, LIBRARIES, PLANNING, SCHOOL SPACE, GYMNASIUMS, INSTRUCTIONAL MATERIALS CENTER, LOCKER ROOMS, SPATIAL RELATIONSHIP , SCHOOL PLANNING

RECOMMENDED SPACE REQUIREMENTS ARE PRESENTED FOR EDUCATIONAL FACILITIES. GYMNASIUMS ARE AMONG THE SCHOOL AREAS CONSIDERED. (FS)

Availability:

Pennsylvania State Department of Public Instruction
Bureau of Building Construction
Harrisburg, Pennslyvania 17126

ERIC/CEF DOCUMENT NO. EF000596 DISPOSITION-CERS 3

STANDARD SCHOOL PLAN D-2

NEW YORK STATE EDUCATION DEPARTMENT, ALBANY, DIVISION OF SCHOOL BUILDINGS AND GROUNDS

010 PAGES

DESCRIPTORS- *EDUCATIONAL FACILITIES, *HIGH SCHOOLS, *JUNIOR HIGH SCHOOLS, *SCHOOL DESIGN, *SCHOOL PLANNING, AUDITORIUMS, CLASSROOMS, FALLOUT SHELTERS, LIBRARIES, SCHOOL CONSTRUCTION, GYMNASIUMS

THIS BROCHURE CONTAINS THE EDUCATIONAL FACILITIES DESIGNED FOR A TYPE D-2 JUNIOR-SENIOR HIGH SCHOOL (GRADES 7-12; CAPACITY 1,000 STUDENTS; EXPANDABLE TO 1,200 STUDENTS). A SKETCH OF THE FLOOR PLAN IS PRESENTED, AND SPECIFICATIONS ARE OUTLINED. PROVISIONS FOR A GYMNASIUM ARE INCLUDED. (FS)

Availability:

Division of School Buildings and Grounds
State Education Department, State of New York
Albany, New York 12224

ERIC/CEF DOCUMENT NO. EF000597 DISPOSITION-CERS 3

STANDARD SCHOOL PLAN D-3

NEW YORK STATE EDUCATION DEPARTMENT, ALBANY, DIVISION OF SCHOOL BUILDINGS AND GROUNDS

010 PAGES

DESCRIPTORS- *JUNIOR HIGH SCHOOLS, *HIGH SCHOOLS, *SCHOOL DESIGN, *SCHOOL PLANNING, *SENIOR HIGH SCHOOLS, AUDITORIUMS, CLASSROOMS, EDUCATIONAL FACILITIES, FALLOUT SHELTERS, GYMNASIUMS, LIBRARIES, SCHOOL CONSTRUCTION

THIS BROCHURE CONTAINS THE EDUCATIONAL FACILITIES DESIGNED FOR A TYPE D-3 JUNIOR-SENIOR HIGH SCHOOL (GRADES 7-12; CAPACITY 1,000 STUDENTS; EXPANDABLE TO 1,200 STUDENTS). A SKETCH OF THE FLOOR PLAN IS PRESENTED, AND SPECIFICATIONS ARE OUTLINED. PROVISIONS FOR A GYMNASIUM ARE INCLUDED. (FS)

Availability:

Division of School Buildings and Grounds
State Education Department, State of New York
Albany, New York 12224

ERIC/CEF DOCUMENT NO. EF000601 DISPOSITION-CERS 3

STANDARD SCHOOL PLAN C-1

NEW YORK STATE EDUCATION DEPARTMENT, ALBANY, DIVISION OF SCHOOL BUILDINGS AND GROUNDS

010 PAGES

DESCRIPTORS- *EDUCATIONAL FACILITIES, *HIGH SCHOOLS, *SCHOOL DESIGN, *SCHOOL PLANNING, *SECONDARY SCHOOLS, AUDITORIUMS, CLASSROOMS, FALLOUT SHELTERS, GYMNASIUMS, LIBRARIES, SCHOOL CONSTRUCTION, SCIENCE FACILITIES, TEAM TEACHING

THIS BROCHURE CONTAINS THE EDUCATIONAL FACILITIES DESIGNED FOR A TYPE C-1 SENIOR HIGH SCHOOL (GRADES 10-12; 800 STUDENTS; EXPANDABLE TO 1000 STUDENTS). A SKETCH OF THE FLOOR PLAN IS PRESENTED, AND SPECIFICATIONS ARE OUTLINED. PROVISIONS FOR A GYMNASIUM ARE INCLUDED. (FS)

Availability:

Division of School Buildings and Grounds
State Education Department, State of New York
Albany, New York 12224

ERIC/CEF DOCUMENT NO. EF000602 DISPOSITION-CERS 3

STANDARD SCHOOL PLAN C-2

NEW YORK STATE EDUCATION DEPARTMENT, ALBANY, DIVISION OF SCHOOL BUILDINGS AND GROUNDS

010 PAGES

DESCRIPTORS- *EDUCATIONAL FACILITIES, *HIGH SCHOOLS, *SCHOOL DESIGN, *SCHOOL PLANNING, *SECONDARY SCHOOLS, AUDITORIUMS, CLASSROOMS, GYMNASIUMS, LIBRARIES, SCHOOL CONSTRUCTION

THIS BROCHURE CONTAINS THE EDUCATIONAL FACILITIES DESIGNED FOR A TYPE C-2 SENIOR HIGH SCHOOL (GRADES 10-12; 1000 STUDENTS; EXPANDABLE TO 1,200 STUDENTS). A SKETCH OF THE FLOOR PLAN IS PRESENTED, AND SPECIFICATIONS ARE OUTLINED. PROVISIONS FOR A GYMNASIUM ARE INCLUDED. (FS)

Availability:

Division of School Buildings and Grounds
State Education Department, State of New York
Albany, New York 12224

ERIC/CEF DOCUMENT NO. EF000603 DISPOSITION-CERS 3

STANDARD SCHOOL PLAN D-1

NEW YORK STATE EDUCATION DEPARTMENT, ALBANY, DIVISION OF SCHOOL BUILDINGS AND GROUNDS

010 PAGES

DESCRIPTORS- *EDUCATIONAL FACILITIES, *JUNIOR HIGH SCHOOLS, *SCHOOL DESIGN, *SCHOOL PLANNING, AUDITORIUMS, CLASSROOMS, FALLOUT SHELTERS, GYMNASIUMS, LIBRARIES, SCHOOL CONSTRUCTION

THIS BROCHURE CONTAINS THE EDUCATIONAL FACILITIES DESIGNED FOR A TYPE D-1 JUNIOR-SENIOR HIGH SCHOOL (GRADES 7-12; 800 STUDENTS; EXPANDABLE TO 1000 STUDENTS). A SKETCH OF THE FLOOR PLAN IS PRESENTED, AND SPECIFICATIONS ARE OUTLINED. PROVISIONS FOR A GYMNASIUM ARE INCLUDED. (FS)

Availability:

Division of School Buildings and Grounds
State Education Department, State of New York
Albany, New York 12224

ERIC/CEF DOCUMENT NO. EF003428 DISPOSITION-UFRC 1

A GUIDE FOR PLANNING THE FIELD HOUSE AS A COLLEGE OR SCHOOL PHYSICAL EDUCATION FACILITY

BY - PETERSEN, ALEXANDER, JR.

PUBLISHED - 1963

062 PAGES

DESCRIPTORS - *ARCHITECTURAL ELEMENTS; *BUILDING DESIGN; *EDUCATIONAL PLANNING; *FIELD HOUSES; *PHYSICAL EDUCATION FACILITIES; ATHLETICS; FACILITY GUIDELINES; PHYSICAL RECREATION PROGRAMS; RECREATIONAL FACILITIES

THE PLANNING OF FIELD HOUSES FOR SCHOOLS AND COLLEGES IS DISCUSSED IN RELATION TO THEIR VARIOUS USES, SUCH AS FOR PHYSICAL EDUCATION PROGRAMS, INTRAMURAL AND EXTRAMURAL ATHLETICS, AND INTERCOLLEGIATE ATHLETICS. FOLLOWING A PRESENTATION OF THE HISTORICAL DEVELOPMENT OF FIELD HOUSES AND THEIR EDUCATIONAL SIGNIFICANCE, DESIGNING THE FIELD HOUSE IS CONSIDERED, FOCUSING ON THE EQUIPMENT AND FACILITIES TO BE INCLUDED IN THE STRUCTURE. THE OPERATING AND SERVICING OF FIELD HOUSES IS ALSO CONSIDERED. (FS)

Availability:

Will be reported in RIE, 1970

Bureau of Publications
Teachers' College
Columbia University
New York, New York 10027

ERIC/CEF DOCUMENT NO. EF002931 DISPOSITION-EDC 2

FIELDHOUSE PROMOTES MAXIMUM USAGE

PUBLISHED - AUGUST 1967

IN - AMERICAN SCHOOL AND UNIVERSITY; V39 N12 P33 AUGUST 1967

001 PAGES

DESCRIPTORS - *BUILDING DESIGN; *FACILITY CASE STUDIES; *FIELD HOUSES; *GYMNASIUMS; *PHYSICAL EDUCATION FACILITIES; ARCHITECTURAL CHARACTER; *RECREATIONAL FACILITIES

VARIOUS DESIGN AND STRUCTURAL FEATURES ARE DESCRIBED FOR MISSOURI MILITARY ACADEMY'S FIELDHOUS. EMPHASIS IS GIVEN TO FEATURES WHICH PROMOTE ITS MULTIPURPOSE INCORPORATION FOR ATHLETICS, PARADES, DRILLS, AND OTHER CEREMONIES. PHOTOGRAPHS OF THE INTERIOR AND EXTERIOR OF THE FACILITY ARE INCLUDED. (FS)

Availability:

Buttneheim Publishing Corporation
757 Third Avenue
New York, New York 10017

ERIC/CEF DOCUMENT NO. EF002272 DISPOSITION-EDC 2

STEEL SPACE FRAME SPANS MASSIVE U.C.L.A. AUDITORIUM-SPORTS ARENA

PUBLISHED-SEP68
IN- COLLEGE AND UNIVERSITY, VOL. 45, NO. 3, SEPT. 1968

003 PAGES

DESCRIPTORS- *AUDITORIUMS, *COLLEGE BUILDINGS, *FIELD HOUSES, *FURNITURE DESIGN, *STRUCTURAL BUILDING SYSTEMS, ECONOMICS, FLEXIBLE FACILITIES, LIGHTING

STEEL SPACE FRAMING AT RELATIVELY LOW COST PRODUCES CLEAR-SPAN, MULTIPURPOSE BUILDINGS TO ACCOMMODATE LARGE NUMBERS OF STUDENTS FOR ATHLETIC, RECREATIONAL, AND ACADEMIC FUNCTIONS. THIS 300 X 400 FT. ARENA IS THE LARGEST COLLEGIATE ACTIVITY CENTER ON THE WEST COAST. THE SPACE FRAMEFORMS A GEOMETRIC DESIGN, UTILIZING THE BOTTOM CHORD OF THE FRAME TO SUP OF INCANDESCENT AND MERCURY VAPOR IGHT CLUSTERS, WHICH PERMIT A WIDE RANGE OF ILLUMINATION FOR DIFFERENT EVENTS. SEATING INCLUDES 10,300 PERMANENT THEATER-TYPE SEATS AND 3,200 COLLAPSIBLE BLEACHER SEATS AND FOLDING CHAIRS. (LD)

Availability:

McGraw-Hill
1050 Merchandise Mart
Chicago, Illinois 60654

ERIC/CEF DOCUMENT NO. EF000171 DISPOSITION-CERS 1

AIR STRUCTURES FOR SCHOOL SPORTS

BY - ROBERTSON, NAN
EDUCATIONAL FACILITIES LABORATORIES, INC., NEW YORK, NEW YORK

PUBLISHED - 1964

028 PAGES

DESCRIPTORS - *AIR STRUCTURES; *PHYSICAL EDUCATION FACILITIES; *PREFABRICATION; ATHLETIC ACTIVITIES; CONSTRUCTION COSTS; COSTS; MAINTENANCE; SAFETY; SCHOOL CONSTRUCTION; SCHOOL MAINTENANCE; SCHOOL SAFETY

AIR STRUCTURES ARE FABRIC BUILDINGS BLOWN UP AND HELD UP BY AIR PRESSURE. EXPERIMENTS WITH SUCH STRUCTURES WERE CONDUCTED AS EARLY AS 1917. IN 1948 THE UNITED STATES AIR FORCE SOUGHT A NEW WAY OF HOUSING LARGE RADAR ANTENNAE PLANNED FOR THE ARCTIC. AS AN OUTCOME OF THEIR SEARCH, BIRDAIR STRUCTURES, INC., WHICH IS NOW ONE OF SEVERAL COMPANIES SELLING SUCH STRUCTURES, WAS FOUNDED. EARLY EXPERIENCES WITH AIR STRUCTURES FOR SCHOOLS IN LITCHFIELD, CONNECTICUT, WERE DISAPPOINTING. THE SUBSEQUENT ERECTION OF TWO MORE BUBBLES WAS EVIDENCE THAT SATISFACTION WAS EVENTUALLY ACHIEVED. COST ESTIMATES OF $2.14 PER SQUARE FOOT COMPARE FAVORABLY WITH WOOD-DOMED FIELDHOUSES AT $6.53 PER SQUARE FOOT OR GEODESIC FIELDHOUSES AT $8.34 PER SQUARE FOOT. COSTS FOR SWIMMING POOL USE ARE ESTIMATED AT $9.38 PER SQUARE FOOT AS COMPARED TO $26.00 AND $32.00. EASE OF HEATING IS ALSO EMPHASIZED. INSTALLATION TIME IS APPROXIMATELY ONE DAY. THERE IS NO DANGER OF SUFFOCATION IN CASE OF DEFLATION BECAUSE THE PROCESS IS SLOW AND THE MATERIAL CAN EASILY BE LIFTED SHOULD ONE FIND IT NECESSARY TO GET OUT UNDER SUCH CONDITIONS. THERE IS NO FIRE DANGER. BECAUSE OF A HIGH REFLECTION SURFACE, LIGHTING PROBLEMS ARE MINIMAL. CURRENT EXPERIMENTS ARE BEING CARRIED OUT TO MAKE IMPROVEMENTS. INTERESTED READERS MAY SEE SUGGESTED DO'S AND DON'T'S BY REFERRING TO THIS BOOKLET. ADVANTAGES OF AIR STRUCTURES ARE COST, HEATING EASE, LIGHTING EASE, UNOBSTRUCTED AREA, PORTABILITY, MAINTENANCE, AND DEPENDABILITY. THE MAIN DISADVANTAGE IS THE LIMITED LIFE EXPECTANCY. (RH)

Availability:

Educational Facilities Laboratories, Inc.
477 Madison Avenue
New York, New York 10022

ERIC/CEF DOCUMENT NO. EF000871 DISPOSITION-CERS 1

WAYLAND SENIOR HIGH SCHOOL

EDUCATIONAL FACILITIES LABORATORIES, INC., NEW YORK, N. Y.

IN- PROFILES OF SIGNIFICANT SCHOOLS

033 PAGES

DESCRIPTORS- *EDUCATIONAL PLANNING, *FLEXIBLE FACILITIES, *SCHOOL DESIGN, *SCHOOL PLANNING, *TEAM TEACHING, BUILDING DESIGN, CLOSED CIRCUIT TELEVISION, INDIVIDUALIZED INSTRUCTION, MOVABLE PARTITIONS, PHYSICAL EDUCATION FACILITIES, SCHOOL CONSTRUCTION, SCHOOL ORGANIZATION

A DESCRIPTION IS PRESENTED OF WAYLAND, MASSACHUSETTS SENIOR HIGH SCHOOL FACILITIES. SPECIAL CONSIDERATION IS GIVEN TO DESIGN AND STRUCTURAL FEATURES OF THE SCHOOL'S DOMED FIELD HOUSE. DIAGRAMMATIC REPRESENTATIONS ARE INCLUDED. (FS)

Order from EDRS as: ED 31873

MF $0.25 HC $1.75

ERIC/CEF DOCUMENT NO. EF001340 DISPOSITION-EDC- 1

CONVENTIONAL GYMNASIUM VS GEODESIC FIELD HOUSE (A COMPARATIVE STUDY OF HIGH SCHOOL PHYSICAL EDUCATION AND ASSEMBLY FACILITIES)

MCLEOD AND FERRARA WASHINGTON, D. C.

PUBLISHED- 61
IN- CASE STUDIES OF EDUCATIONAL FACILITIES 1

017 PAGES

DESCRIPTORS- *CONSTRUCTION COSTS, *FIELD HOUSES, *GYMNASIUMS, *STRUCTURAL BUILDING SYSTEMS, COMPONENT BUILDING SYSTEMS, PREFABRICATION

THE STUDY OF THE COMPARATIVE COSTS OF A GEODESIC DOME FIELD HOUSE AND A CONVENTIONAL GYMNASIUM DETAILS--(1) BACKGROUNG AND PURPOSE INFORMATION, (2) DESIGN CONSIDERATIONS, (3) COMPARATIVE BID DATA, AND (4) CONCLUSIONS REACHED. THE DOME PROTOTYPE WAS FOUND TO BE LARGER (SQUARE FOOTAGE), LESS EXPENSIVE, AND MORE FLEXIBLE IN TERMS OF VARIED USAGE. STATED ADVANTAGES OF THIS STRUCTURE WERE--(1) UNLIMITED SPATIAL FLEXIBILITY THROUGH ABSENCE OF STRUCTURAL SUPPORTS, (2) ECONOMICAL POTENTIAL OF A COMPONENT SYSTEM, (3) ADVANTAGEOUS CHARACTERISTICS OF ASSEMBLY IN THE ROUND, AND (4) EXCITING AESTHETIC PROPERTIES. PLANS, SECTIONS, AND PERSPECTIVES OF BOTH ALTERNATIVES ARE INCLUDED.

Order from EDRS as: ED 31038

MF $0.25 HC $1.10

ERIC/CEF DOCUMENT NO. EF000432 DISPOSITION-EDC- 2

DOMES FOR SCHOOLS

BY- NYE, EDWARD F.
CAUDILL, ROWLETT, SCOTT AND ASSOCIATES ARCHITECTS-ENGINEERS
BRYAN, TEXAS

PUBLISHED- 58
IN- RESEARCH REPORT, 11

004 PAGES

DESCRIPTORS- *BUILDING MATERIALS, *CONSTRUCTION (PROCESS), *FLEXIBLE FACILITIES, *SCHOOL DESIGN, *STRUCTURAL BUILDING SYSTEMS, AUDITORIUMS, BUILDING INNOVATION, CLASSROOMS, GYMNASIUMS, SPACE DIVIDERS

THE NEED FOR FLEXIBLE BUILDINGS WITH MOVABLE PARTITIONS AND COLUMN-FREE SPACE, LEADS TO THE POSSIBILITIES OF USING STRUCTURAL MATERIALS IN A FORM WHICH WILL ELIMINATE BENDING, USING THEIR STRENGTH MORE EFFICIENTLY BY KEEPING THE STRESSES IN A SIMPLE TENSION OR COMPRESSION. THIS POINTS DIRECTLY TO THE USE OF SOME KIND OF DOME. THE DEVELOPMENT OF THE DOME IS TRACED THROUGH HISTORY TO THE PRESENT, WITH ACTUAL EXAMPLES OF CURRENTLY DESIGNED--(1) AUDITORIUMS, (2) AIR TERMINALS, (3) FIELD HOUSES, (4) GYMNASIUMS, (5) CHURCHES, (6) COLISEUMS, AND (7) GEODESIC SPACE FRAMES. SPECIFIC DISCUSSION IS GIVEN FOR DOMES USED IN DESIGNING TEACHING SPACE, PARTICULARLY CLASSROOMS, USING SPACE DIVIDERS AND DOME CLUSTERS. THIS IS RELATED TO THE NEED FOR FLUID EDUCATIONAL PROGRESS. PHOTOGRAPHS SHOW CURRENT EXAMPLES OF DOME CONSTRUCTION. (MM)

Availability:

Caudill, Rowlett and Scott Architects
3636 Richmond Avenue P.O. Box 22427
Houston, Texas 77026

ERIC/CEF DOCUMENT NO. EF001134 DISPOSITION-EDC 1

SWIMMING POOLS FOR SCHOOLS

BY - NEILSON, DONALD W. AND NIXON, JOHN E.

PUBLISHED - 1954

IN - MONOGRAPH 3

051 PAGES

DESCRIPTORS - *BUILDING EQUIPMENT; *HEALTH NEEDS; *PHYSICAL EDUCATION; *SCHOOL DESIGN; *SWIMMING POOLS; ATHLETIC ACTIVITIES; CONSTRUCTION COSTS; LOCKER ROOMS; RECREATIONAL FACILITIES; SAFETY; SANITATION; SPACE UTILIZATION

THE INCREASING INTEREST IN SWIMMING INSTRUCTION AND RECREATION FOR ELEMENTARY AND SECONDARY SCHOOL CHILDREN HAS RESULTED IN THE DEVELOPMENT OF THIS GUIDE FOR SWIMMING POOL USE, DESIGN, AND CONSTRUCTION. INTRODUCTORY MATERIAL DISCUSSED THE NEED FOR SWIMMING IN THE EDUCATIONAL PROGRAM AND THE ORGANIZATION OF SWIMMING PROGRAMS IN THE SCHOOL. DESIGN SPECIFICATIONS INCLUDE--(1) POOL LOCATION, (2) INDOOR-OUTDOOR POOLS, (3) POOL SHAPE AND DIMENSIONS, (4) POOL DETAILS AND EQUIPMENT, (5) SUPPORTING EQUIPMENT AND FACILITIES, AND (6) CARING FOR SWIMMING POOLS. THE DISCUSSION STRESSED COMPARISON OF ALTERNATIVE SOLUTIONS, AND HEALTH AND SAFETY CONSIDERATIONS. PHOTOGRAPHS AND DIAGRAMS SUPPLEMENT TEXT MATERIALS. AN EXTENSIVE BIBLIOGRAPHY ON SWIMMING INSTRUCTION AND POOLS IS INCLUDED. (MM)

Availability:

Stanford University Press
Stanford, California 94305

ERIC/CEF DOCUMENT NO. EF003796 DISPOSITION-EDC 1

SWIMMING POOLS. A GUIDE TO THEIR PLANNING, DESIGN AND OPERATION

BY - GABRIELSEN, M. ALEXANDER, ED.
COUNCIL FOR NATIONAL COOPERATION IN AQUATICS, WASHINGTON, D.C.
HOFFMAN PUBLICATIONS, INC., FORT LAUDERDALE, FLORIDA

PUBLISHED - JUNE 1969

224 PAGES

DESCRIPTORS - *ATHLETICS; *PHYSICAL EDUCATION FACILITIES; *PHYSICAL FACILITIES; *PLANNING; *SWIMMING POOLS; ADMINISTRATION; DESIGN PREFERENCE; EQUIPMENT; GUIDES

INFORMATION IS PRESENTED REGARDING ALL PHASES OF SWIMMING POOL DEVELOPMENT AND OPERATION FROM EARLIEST PLANNING CONSIDERATIONS TO FINAL PROGRAMING. THIS COMPREHENSIVE BOOK COVERS--(1) THE STEPS INVOLVED IN PLANNING A POOL, (2) DESIGNING THE POOL, (3) WATER CIRCULATION, FILTRATION, AND TREATMENT, (4) COMMUNITY POOLS, SCHOOL AND AGENCY POOLS, AND POOLS FOR COMPETITION, (5) PORTABLE AND ABOVE GROUND POOLS, (6) POOL EQUIPMENT AND ACCESSORIES, AND (7) THE BATHOUSE AND AUXILIARY SERVICES. BOTH INDOOR AND OUTDOOR POOLS ARE CONSIDERED, AS WELL AS ALL TYPES OF PERMANANT AND TEMPORARY ENCLOSURES. SUBJECTS REGARDING POOL ADMINISTRATION AND OPERATION ARE DISCUSSED INCLUDING BUDGETING, MAINTENANCE AND SAFETY PROCEDURES. INCLUDED IN THE APPENDICES ARE WORKSHEETS FOR USE IN DETERMINING THE POOL DESIGN, CHECK LISTS FOR POOL PLANNING, SUGGESTED ORDINANCES AND REGULATION, AND AN ACTUAL FEASIBILITY STUDY THAT SECURED A NEW POOL FOR AN ILLINOIS TOWN. PHOTOGRAPHS AND DIAGRAMS ARE INCLUDED THROUGHOUT THE BOOK. (FS)

Availability:

Hoffman Publications, Inc.
Sunrise Professional Building
Fort Lauderdale, Florida 33304

ERIC/CEF DOCUMENT NO. EF003864 DISPOSITION-EDC 1

SWIMMING POOLS

MINISTRY OF HOUSING AND LOCAL GOVERNMENT, LONDON, ENGLAND

PUBLISHED - 1962

IN - DESIGN BULL - 4

018 PAGES

DESCRIPTORS - *FACILITY GUIDELINES; *PHYSICAL EDUCATION FACILITIES; *PHYSICAL FACILITIES; *SWIMMING POOLS; FACILITY REQUIREMENTS; LOCKER ROOMS

TECHNICAL AND ENGINEERING DATA ARE SET FORTH ON THE DESIGN AND CONSTRUCTION OF SWIMMING POOLS. CONSIDERATION IS GIVEN TO SITE SELECTION, POOL CONSTRUCTION, THE COMPARATIVE MERITS OF COMBINING OPEN AIR AND ENCLOSED POOLS, AND ALTERNATIVE USES OF THE POOL. GUIDELINES ARE PRESENTED REGARDING--(1) POOL SIZE AND USE, (2) LOCKER AND CHANGING ROOMS, (3)SPECTATOR ACCOMMODATION, AND (4) ENTRANCE HALL AND ANCILLARY ACCOMMODATIONS. RECOMMENDATIONS ARE INCLUDED FOR ENGINEERING SERVICES (PURIFICATION OF WATER, HEATING AND VENTILATION, ELECTRICAL INSTALLATION, LIGHTING, AND ACOUSTICS). (FS)

Availability:

Will be reported in RIE, 1970

British Information Services
845 Third Avenue
New York, New York 10022 ($0.30)

ERIC/CEF DOCUMENT NO. EF002610 ED 27709 DISPOSITION-EDC 1

SUGGESTED ORDINANCE AND REGULATIONS COVERING PUBLIC SWIMMING POOLS

AMERICAN PUBLIC HEALTH ASSOCIATION, NEW YORK, N. Y.

PUBLISHED- 64

AVAILABLE FROM- AMERICAN PUBLIC HEALTH ASSOCIATION, 1790 BROADWAY, NEW YORK 19, N. Y.

037 PAGES

DESCRIPTORS- *DESIGN NEEDS, *LEGISLATION, *RECREATIONAL FACILITIES, *STANDARDS, *SWIMMING POOLS, CONSTRUCTION NEEDS, GUIDELINES, INFECTIOUS DISEASES, MAINTENANCE, PUBLIC HEALTH, SAFETY

IN PREPARING THIS PUBLICATION, THE JOINT COMMITTEE ON SWIMMING POOLS AND BATHING PLACES INTENDED TO PROMOTE THE PROPER INSTALLATION OF PUBLIC SWIMMING POOL FACILITIES AND THEIR EFFICIENT OPERATION. OBJECTIVES WERE--(1) TO BE CONCERNED WITH THE DEVELOPMENT OF REALISTIC AND REASONABLE MINIMUM STANDARDS TO SAFEGUARD THE HEALTH AND SAFETY OF SWIMMERS AND BATHERS, (2) TO DEVELOP STANDARDS THAT HAD SOME DEGREE OF FLEXIBILITY, AND (3) TO PRODUCE A LEGAL INSTRUMENT THAT COULD BE USED AS A GUIDE BY GOVERNMENT IN EXACTING MINIMUM SWIMMING POOL STANDARDS. THIS ORDINANCE AND THESE REGULATIONS, IF ENACTED, SHOULD SERVE TO MINIMIZE THE SPREAD OF INFECTIONS, REDUCE INJURIES THROUGH ELIMINATION OF HAZARDS, AND PROMOTE PUBLIC SWIMMING POOLS AS ATTRACTIVE AND SAFE PLACES FOR ENJOYMENT, RECREATION, AND PHYSICAL FITNESS. WHILE THIS REPORT IS IN THE FORM OF SUGGESTED LEGISLATION, IT IS ALSO A GUIDE AND MAY BE USED IN THE EVALUATION OF THE DESIGN, CONSTRUCTION, OPERATION AND MAINTENANCE OF PUBLIC SWIMMING POOLS. (RK)

Order from EDRS as: ED 27709

MF $0.25 HC $1.95

ERIC/CEF DOCUMENT NO. EF002930 DISPOSITION-EDC 2

FROM EAST AND WEST. TWO INDOOR SWIMMING POOLS

PUBLISHED - AUGUST 1967

IN - AMERICAN SCHOOL AND UNIVERSITY; V39 N 12 P30-31 AUGUST 1967

002 PAGES

DESCRIPTORS - *BUILDING DESIGN; *FACILITY CASE STUDIES; *PHYSICAL EDUCATION FACILITIES; *RECREATIONAL FACILITIES; *SWIMMING POOLS; ARCHITECTURAL CHARACTER; FACILITY GUIDELINES

DESIGN, STRUCTURAL, AND FUNCTIONAL FEATURES ARE DESCRIBED FOR THE INDOOR SWIMMING POOLS OF PACIFIC LUTHERAN UNIVERSITY AND CENTRAL CONNECTICUT STATE COLLEGE. CONSIDERATION IS GIVEN TO DECK AND DIVING AREAS, STORAGE AREAS, WALLS OF THE POOL ENCLOSURE, SPECTATOR FACILITIES, LOCKER ROOMS, ACOUSTICAL TREATMENT, LIGHTING, AND VENTILATION SYSTEMS, AND RELATION OF THE POOL TO THE MAIN PHYSICAL EDUCATION FACILITY. PHOTOGRAPHS OF EACH POOL FACILITY ARE INCLUDED. (FS)

Availability:

Buttenheim Publishing Corporation
757 Third Avenue
New York, New York 10017

ERIC/CEF DOCUMENT NO. EF002093 DISPOSTION-EDC 1

1968 LISTING OF SWIMMING POOL EQUIPMENT

NATIONAL SANITATION FOUNDATION, ANN ARBOR, MICHIGAN, TESTING LABORATORY

PUBLISHED - APRIL 1968

026 PAGES

DESCRIPTORS - *EQUIPMENT STANDARDS; *BUILDING EQUIPMENT; *PUBLIC HEALTH; *SANITATION; *SWIMMING POOLS

AN UP-TO-DATE LISTING OF SWIMMING POOL EQUIPMENT INCLUDING--(1) COMPANIES AUTHORIZED TO DISPLAY THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL, (2) EQUIPMENT LISTED AS MEETIN NSF SWIMMING POOL EQUIPMENT STANDARDS RELATING TO DIATOMITE TYPE FILTERS, (3) EQUIPMENT LISTED AS MEETING NSF SWIMMING POOL EQUIPMENT STANDARDS RELATING TO SAND TYPE FILTERS, (4) EQUIPMENT LISTED AS MEETING NSF SWIMMING POOL EQUIPMENT STANDARDS RELATING TO AUTOMATIC SURFACE SKIMMERS, (5) EQUIPMENT LISTED AS MEETING NSF STANDARD RELATING TO CENTRIFUGAL PUMPS, AND (6) INDEX TO COMPANY SEAL OF APPROVAL NUMBERS. (RH)

Order from EDRS as: ED 25904

MF $0.25 HC $1.40

ERIC/CEF DOCUMENT NO. EF001789 DISPOSITION-EDC 1

CENTRIFUGAL PUMPS FOR SWIMMING POOLS. NATIONAL SANITATION FOUNDATION STANDARD NUMBER 17

PUBLISHED - JUNE 1967

030 PAGES

DESCRIPTORS - *BUILDING EQUIPMENT; *EQIPMENT STANDARDS; *PUBLIC HEALTH; *SANITATION; *SWIMMING POOLS

THE PUMPS DISCUSSED HERIN ARE INTENDED TO BE USED FOR RECIRCULATING WATER IN SWIMMING POOLS, BOTH PUBLIC AND PRIVATE. INCLUDED ARE THE BASIC COMPONENTS WHICH MAY BE A PART OF A PUMP SUCN AS THE HOUSING, STRAINER, IMPELLER, VALVES, AND SUCH OTHER PARTS AS ARE ATTACHED OR A PART OF THE PUMP AS SUPPLIED BY THE MANUFACTURER. THIS STANDARD IS INTEDED TO APPLY TO PUMPS OF 3 HP SIZE OR SMALLER. DISCUSSED ARE--(1) MINIMUM REQUIREMENTS, (2) DEFINITIONS, (3) MATERIALS, (4) DESIGN AND CONSTRUCTION, AND (5) MOTORS. ALSO INCLUDED ARE TESTING CONDITIONS AND PROCEDURES, AND RECOMMENDED PRACTICES FOR SELECTION AND INSTALLATION. (RH)

Availability:

National Sanitation Foundation Headquarters
2355 West Stadium Blvd.
Ann Arbor, Michigan 48106

ERIC/CEF DOCUMENT NO. EF002094 DISPOSITION-EDC 1

SWIMMING POOL WATER TREATMENT CHEMICALS AND/OR PROCESSES. STANDARD NO. 22

NATIONAL SANITATION FOUNDATION, ANN ARBOR, MICHIGAN

PUBLISHED - FEBRUARY 1968

042 PAGES

DESCRIPTORS - *CHEMISTRY; *PUBLIC HEALTH; *SANITATION IMPROVEMENT; *STANDARDS; *SWIMMING POOLS; ENVIRONMENTAL CRITERIA; FACILITY GUIDELINES; SANITATION; WATER RESOURCES

CHEMICALS OR PROCESSED USED OR INTENDED FOR USE, IN THE TREATMENT OF SWIMMING POOL WATER ARE COVERED. MINIMUM PUBLIC HEALTH LIMITS OR ACCEPTABILITY IN REGARD TO TOXICITY, BIOCIDAL EFFECTIVENESS, AND CHEMICAL BEHAVIOR AND ANALYSIS ARE PRESENTED. THE APPENDICES GIVE GUIDELINES TO THE SCIENTIFIC AND STATISTICALLY SOUND EVALUATIONS TO DETERMINE THE EFFICACY AND SAFETY OF SWIMMING POOL WATER TREATMENT CHEMICALS OR PROCESSES. (RH)

Availability:

National Sanitation Foundation
P.O. Box 1468
Ann Arbor, Michigan 48106

ERIC/CEF DOCUMENT NO. EF001890 ED 25899 DISPOSITION-EDC- 1

SAND TYPE FILTERS FOR SWIMMING POOLS

NATIONAL SANITATION FOUNDATION, ANN ARBOR, MICHIGAN

PUBLISHED-OCT66

REPORT/SERIES NO.- STANDARD NO. 10

032 PAGES

DESCRIPTORS- *BUILDING EQUIPMENT, *EQUIPMENT STANDARDS, *PUBLIC HEALTH, *SANITATION, *SWIMMING POOLS

SAND TYPE FILTERS ARE COVERED IN THIS STANDARD. THE FILTERS DESCRIBED ARE INTENDED TO BE DESIGNED AND USED SPECIFICALLY FOR SWIMMING POOL WATER FILTRATION, BOTH PUBLIC AND RESIDENTIAL. INCLUDED ARE THE BASIC COMPONENTS WHICH ARE A NECESSARY PART OF THE SAND TYPE FILTER SUCH AS FILTER HOUSING, UPPER AND LOWER DISTRIBUTION SYSTEMS FILTER MEDIA, SUPPORTING MATERIAL (WHEN REQUIRED) PIPING, VALVES, GUAGES, AND OTHER ACCESSORIES AS REQUIRED FOR THE PROPER FUNCTION AND OPERATION OF SUCH FILTERS. STANDARD INCLUDES--(1) MINIMUM REQUIREMENTS, (2) DEFINITIONS, (3) MATERIALS, AND (4) DESIGN AND CONSTRUCTION. A FINAL SECTION INCLUDES RECOMMENDATIONS FOR INSTALLATION AND OPERATION. (RH)

Order from EDRS as: ED 25899

MF $0.25 HC $1.70

ERIC/CEF DOCUMENT NO. EF001891 ED 25900 DISPOSITION-EDC- 1

DIATOMITE TYPE FILTERS FOR SWIMMING POOLS

NATIONAL SANITATION FOUNDATION, ANN ARBOR, MICHIGAN

PUBLISHED-OCT66

REPORT/SERIES NO.- STANDARD NO. 9

037 PAGES

DESCRIPTORS- *BUILDING EQUIPMENT, *EQUIPMENT STANDARDS, *SANITATION, *SWIMMING POOLS, PUBLIC HEALTH

PRESSURE AND VACUUM DIATOMITE TYPE FILTERS ARE COVERED IN THIS STANDARD. THE FILTERS HEREIN DESCRIBED ARE INTENDED TO BE DESIGNED AND USED SPECIFICALLY FOR SWIMMING POOL WATER FILTRATION, BOTH PUBLIC AND RESIDENTIAL. INCLUDED ARE THE BASIC COMPONENTS WHICH ARE A NECESSARY PART OF THE DIATOMITE TYPE FILTER SUCH AS FILTER HOUSING, ELEMENT SUPPORTS, FILTER SEPTA, MECHANICAL CLEANING DEVICES AND OTHER SIMILAR ACCESSORIES. NOT INCLUDED IN THIS STANDARD ARE FILTERS WHICH DO NOT USE A FILTER AID SUCH AS DIATOMACEOUS EARTH, PROCESSED PERLITE OR SIMILAR MATERIAL. INCLUDED IN THIS STANDARD ARE--(1) MINIMUM REQUIREMENTS, (2) DEFINITIONS, (3) MATERIALS, AND (4) DESIGN AND CONSTRUCTION. A FINAL SECTION DISCUSSED RECOMMENDATIONS FOR INSTALLATION AND OPERATION. (RH)

Order from EDRS as: ED 25900

MF $0.25 HC $1.95

ERIC/CEF DOCUMENT NO. EF001791 ED 19844 DISPOSITION-EDC- 1

RELATING TO ADJUSTABLE OUTPUT RATE CHEMICAL FEEDING EQUIPMENT FOR SWIMMING POOLS

NATIONAL SANITATION FOUNDATION, ANN ARBOR, MICHIGAN, NATIONAL SANITATION FOUNDATION COMMITTEE FOR SWIMMING POOL EQUIPMENT STANDARDS

PUBLISHED-JAN67
IN- NATIONAL SANITATION FOUNDATION STANDARD NUMBER 19

18 PAGES

DESCRIPTORS- *EQUIPMENT STANDARDS, *PUBLIC HEALTH, *RECREATIONAL FACILITIES, *SWIMMING POOLS, SANITATION

THE SCOPE OF THIS STANDARD COVERS ADJUSTABLE OUTPUT RATE CHEMICAL FEEDERS, WHETHER USED FOR SOLUTIONS, SLURRIES OR SOLIDS. IT ALSO INCLUDES AUXILIARY EQUIPMENT SUCH AS PUMPS, STRAINERS, TUBING CONNECTIONS, TACKS, INJECTION FITTINGS AND OTHER REQUIRED COMPONENTS. THE FEEDERS DESCRIBED ARE INTENDED TO BE DESIGNED AND USED SPECIFICALLY FOR CHEMICAL FEEDING FOR BOTH PUBLIC AND PRIVATE RESIDENTIAL SWIMMING POOLS. NOT INCLUDED IN THIS STANDARD ARE GASEOUS FEED EQUIPMENT, FEEDERS WITHOUT ADJUSTABLE OUTPUT RATES, OR FEEDERS WHOSE OUTPUT RATE IS DEPENDENT ON THE FLOW RATE OF THE MEDIUM INTO WHICH THE CHEMICALS ARE INRODUCED. SECTION 1 INCLUDES--(1) MINIMUM REQUIREMENTS, (2) ALTERNATE MATERIALS, (3) REVIEWS AND REVISIONS, AND (4) VARIATIONS IN DESIGN AND OPERATION. SECTION 2 COVERS DEFINITIONS AND TERMINOLOGY. SECTION 3, SUITABLE MATERIALS, AND SECTION 4, DESIGN AND CONSTRUCTION. (RH)

Order from EDRS as: ED 19844

MF $0.25 HC $0.80

ERIC/CEF DOCUMENT NO. EF001788 ED 19842 DISPOSITION-EDC- 1

RELATING TO RECESSED AUTOMATIC SURFACE SKIMMERS FOR SWIMMING POOLS

NATIONAL SANITATION FOUNDATION, ANN ARBOR, MICHIGAN. NATIONAL SANITATION FOUNDATION COMMITTEE FOR SWIMMING POOL EQUIPMENT STANDARDS

PUBLISHED-JAN66
IN- NATIONAL SANITATION FOUNDATION STANDARD NUMBER 11

018 PAGES

DESCRIPTORS- *EQUIPMENT STANDARDS, *PUBLIC HEALTH, *SWIMMING POOLS, SANITATION

THE NATIONAL SANITATION FOUNDATION STANDARD ON SWIMMING POOL EQUIPMENT CONCERNS ITSELF WITH THE SUCCESSFUL APPLICATION OF SURFACE SKIMMERS TO SWIMMING POOLS. THE MINIMUM DESIGN AND CONSTRUCTION REQUIREMENTS ESTABLISHED BY THIS STANDARD ARE SET FORTH TO PROVIDE A MEANS OF EVALUATING THE OVERALL CONSTRUCTION AND EFFECTIVENESS OF THE UNIT. ADDITIONAL CONCERN IS GIVEN TO THE FACTORS RELATING TO THE APPLICATION OF SURFACE SKIMMERS AND THEIR INTEGRATION INTO THE OVERALL HYDRAULIC PERFORMANCE OF THE CIRCULATORY SYSTEM. SURFACE SKIMMERS REMOVE DIRT AND OIL LADEN FILM FROM THE SURFACE OF THE SWIMMING POOL THROUGH A CONTINUOUS REMOVAL PROCESS. THE SURFACE DRAW DEPENDS ON A COMBINATION OF SURFACE TENSION, EFFECTIVE VELOCITY, AND WIND DRIFT EFFECTS. THIS SPECIFICATION IS DIVIDED INTO FOUR SECTIONS--(1) GENERAL SCOPE, (2) DEFINITIONS, (3) MATERIALS OF CONSTRUCTION, AND (4) DESIGN AND CONSTRUCTION. RECOMMENDATIONS FOR INSTALLATION ARE ALSO GIVEN. (RH)

Order from EDRS as: ED 19842

MF $0.25 HC $0.80

ERIC/CEF DOCUMENT NO. EF002767 DISPOSITION-CERS 1

ATHLETIC LOCKERS FOR SCHOOLS AND COLLEGES; THEIR DESIGN - SELECTION - AND PURCHASE WITH FUNCTIONAL TIPS AND SUGGESTIONS FOR THE MODERN ATHLETIC LOCKER ROOM

BY - DICKEY, DONALD D.

PUBLISHED - 1967

029 PAGES

DESCRIPTORS - *ATHLETIC EQUIPMENT; *EQUIPMENT STORAGE; *LOCKER ROOMS; *PHYSICAL EDUCATION FACILITIES; *PURCHASING; EQUIPMENT STANDARDS; FIELD HOUSES; GYMNASIUMS; SPECIFICATIONS

INFORMATION IS PROVIDED RELATIVE TO THE DESIGN, SELECTION, AND PURCHASE OF LOCKER EQUIPMENT FOR ATHLETIC AND PHYSICAL EDUCATION USE. SOME SUGGESTIONS OFFERED ARE FOR BOTH SPECIFIC APPLICATIONS, AND SOME ARE GENERAL TO ANY LOCKER DRESSING ROOM. AMONG THE TOPICS DISCUSSED ARE CONSTRUCTION AND JOINING OF LOCKERS, VENTILATION AND DRYING, ADMINISTRATIVE PROVLEMS, AND SECURITY. (FS)

Order from EDRS as: ED 31041

MF $0.25 HC $1.55

ERIC/CEF DOCUMENT NO. EF002932 DISPOSITION-EDC 2

CHOOSING THE RIGHT ATHLETIC LOCKER FOR SCHOOLS AND COLLEGES

BY - DICKEY, DONALD D.

PUBLISHED - AUGUST 1967

IN - AMERICAN SCHOOL AND UNIVERSITY; V39 N12 P35, 49 AUGUST 1967

002 PAGES

DESCRIPTORS - *GUIDELINES; *LOCKER ROOMS; *PHYSICAL EDUCATION FACILITIES; *PURCHASING; ATHLETIC EQUIPMENT

GUIDELINES ARE PRESENTED FOR SELECTING PROPER ATHLETIC LOCKERS FOR SCHOOLS AND COLLEGES. CONSIDERATION IS GIVEN TO VARIOUS ASPECTS OF LOCKER CONSTRUCTION, COLOR FOR LOCKERS, LATCHING DEVICES, AND NUMBER PLATES. INFORMATION IS INCLUDED ON FACTORS REGARDING THE PREPARATION OF LOCKER ORDERS. (FS)

Availability:

Buttenheim Publishing Corporation
757 Third Avenue
New York, New York 10017

ERIC/CEF DOCUMENT NO. EF001962

DISPOSITION-EDC 2

MAINTENANCE OF SCHOOL GYMNASIUMS

FINCHUM, R.N.

PUBLISHED - MAY 1965

IN - SCHOOL ACTIVITIES; MAY 1965

DESCRIPTORS - *BUILDING OPERATION; *GYMNASIUMS; *HEALTH CONDITIONS; *PHYSICAL EDUCAITON FACILITIES; *SCHOOL MAINTENANCE; FLOORING; LIGHTING; SAFETY; SANITATION

PROCEDURES ARE SUGGESTED THAT MAY BE HELPFUL TO THOSE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF SCHOOL BUILDINGS AND GYMNASIUMS. MOST SCHOOLS WITH GYMNASIUMS UTILIZE THEN FOR BOTH INSTRUCTIONAL AND SPORTS PURPOSES. MAINTENANCE OF THE MULTIPURPOSE GYM ARE DISCUSSED UNDER FOUR SUBJECT AREAS--(1) FLOORS, (2) LIGHTING, (3) SANITATION, AND (4) SAFETY. A RENOVATION PROCEDURE TO BE USED IF A GYMNASIUM FLOOR IS SLIGHTLY WARPED OR IS IN NEED OF COMPLETE RENOVATION IS INCLUDED. LIGHTING SYSTEMS MUST BE CONSIDERED IN TERMS OF QUALITY OF ILLUMINATION, REPLACEMENT AND CLEANING. SPECIFIC ATTENTION MUST BE GIVEN TO THE SANITARY MAINTENANCE OF FLOORS, SHOWER STALL, WATER CLOSETS, URINALS, LAVATORIES AND DRINKING FOUNTAINS AUXILIARY TO A GYMNASIUM. BRIEF MENTION IS MADE OF THE MAINTENANCE FUNCTIONS THAT MIGHT PREVENT FALLS AND THOSE THAT CONTRIBUTE TO SAFE, ORDERLY EVACUATION IN CASE OF FIRE OR AN EXPLOSION. (RK)

Availability:

School Activities Magazine
Box 196
Tescott, Kansas

ERIC/CEF DOCUMENT NO. EF002313 ED 25916 DISPOSITION-EDC 1

SANITATION IN SCHOOL HOUSEKEEPING, A TRAINING COURSE FOR SCHOOL CUSTODIANS

FLORIDA STATE DEPT. OF EDUCATION, TALLAHASSEE, SCHOOL PLANT MANAGEMENT SECTION

PUBLISHED-MAY65

142 PAGES

DESCRIPTORS- *CLEANING, *CUSTODIAL TRAINING, *METHODS, *SANITATION, *SCHOOL MAINTENANCE, DINING FACILITIES, EQUIPMENT, HEALTH CONDITIONS, HEALTH EDUCATION, HEALTH FACILITIES, HYGIENE, INFECTIOUS DISEASES, LOCKER ROOMS, PUBLIC HEALTH, SCHOOL ENVIRONMENT, STANDARDS

THE MOST EFFICIENT AND MODERN METHODS FOR CLEANING AND SANITIZING SCHOOL FACILITIES ARE PRESENTED FOR THE BENEFIT OF SCHOOL CUSTODIANS. CAREFUL ATTENTION TO THE TOTAL SCHOOL ENVIRONMENT CAN BE SUPPORTIVE OF THE GENERAL EDUCATION PROGRAM AND AT THE SAME TIME MAKE A SOUND CONTRIBUTION TO THE HEALTH AND HEALTH EDUCATION. TOPICS DISCUSSED INCLUDE--(1) ORIENTATION AND DEFINITIONS, (2) BASIC BACTERIOLOGY AND CHEMISTRY, (3) CLEANING AND SANITIZING METHODS, AND (5) PEST CONTROL. A BIBLIOGRAPHY IS PROVIDED. (RK)

Order from EDRS as: ED 25916

MF $0.75 HC $7.20

OUTDOOR PHYSICAL EDUCATION AREAS AND FACILITIES

ERIC/CEF DOCUMENT NO. EF003131 DISPOSITION-EDC 1

THE DESIGN OF OUTDOOR PHYSICAL EDUCATION FACILITIES FOR COLLEGES AND SCHOOLS

BY- DELAMATER, JAMES B.
COLUMBIA UNIVERSITY, NEW YORK, INST. OF FIELD STUDIES

PUBLISHED- 63

135 PAGES

DESCRIPTORS- *COLLEGES, *DESIGN, *PHYSICAL EDUCATION FACILITIES, *PLANNING, *SCHOOLS, COSTS, ECONOMICS, EQUIPMENT, FACILITY GUIDELINES, HEALTH, ILLUMINATION LEVELS, LANDSCAPING, LIGHTING, MAINTENANCE, PARKING FACILITIES, SAFETY, SITE SELECTION, SPACE UTILIZATION

SPECIALIZED INFORMATION IS PRESENTED FOR THOSE INVOLVED IN ASSURING IMPROVEMENT IN THE OUTDOOR PHYSICAL EDUCATION FACILITIES OF THE FUTURE. THE MATERIALS INCLUDED ARE INTENDED TO BE USEFUL TO ARCHITECTS, ENGINEERS AND DESIGNERS GENERALLY, PROGRAM SPECIALISTS, ADMINISTRATORS AND CONSULTANTS IN EDUCATION, AND STUDENTS PREPARING FOR PROFESSIONAL CAREERS IN PHYSICAL EDUCATION. SPECIFIC CHAPTERS DISCUSS THE FOLLOWING TOPICS--(1)COMPREHENSIVE PLANNING,(2)PLANNING OBJECTIVES, (3)SITE SELECTION,(4)COMMON PROBLEMS OF SPACE UTILIZATION,(5)THE ORIENTATION OF OUTDOOR PHYSICAL EDUCATION FACILITIES,(6)PHYSICAL EDUCATION PLAY SURFACES, (7)SPORTS LIGHTING, AND (8)SERVICE FACILITIES. (RK)

Order from EDRS as: ED 28626

MF $0.75 HC $6.85

ERIC/CEF DOCUMENT NO. EF000153 ED 18923 DISPOSITION-CERS 1

PLANNING THE OUTDOOR PHYSICAL EDUCATION FACILITIES FOR CENTRAL SCHOOLS

STATE UNIVERSITY OF NEW YORK, ALBANY

PUBLISHED- 47

029 PAGES

DESCRIPTORS- *EDUCATIONAL FACILITIES , *PHYSICAL EDUCATION, *PHYSICAL EDUCATION FACILITIES, *RECREATIONAL FACILITIES, ATHLETICS, EDUCATIONAL PLANNING, EXTRAMURAL ATHLETIC PROGRAMS, INTRAMURAL ATHLETIC PROGRAMS, PHYSICAL FACILITIES, PLANNING

PLANNING OUTDOOR PHYSICAL EDUCATION FACILITIES FOR THE CENTRAL SCHOOL SERVING PUPILS FROM KINDERGARTEN THROUGH HIGH SCHOOL SHOULD TAKE INTO ACCOUNT THE NEEDS AND INTERESTS OF ALL PUPILS DURING THE SCHOOL YEAR AND SHOULD PROVIDE FOR RECREATION NEEDS DURING VACATION PERIODS. PROVISION FOR RECREATIONAL FACILITIES FOR ADULTS SHOULD ALSO BE MADE. THE FIRST OF FIVE DISTINCT PLAY AREAS DESCRIBED IS THE ELEMENTARY AREA. THREE ACRES FOR 300 PUPILS PLUS ONE-HALF ACRE PER HUNDRED PUPILS OVER THIS AMOUNT ARE NEEDED FOR THIS PURPOSE. AREAS FOR KINDERGARTEN SHOULD INCLUDE TURF, APPARATUS, AND SHADE. SECONDLY, COURTS SHOULD BE PROVIDED. AN ACRE IS SUGGESTED FOR FACILITIES OF THIS KIND. A THIRD AREA SHOULD BE FOR HIGH SCHOOL GIRLS. TWO ACRES ARE NEEDED FOR THE VARIOUS FIELD ACTIVITIES OF THIS GROUP. THE FOURTH AREA SHOULD BE FOR HIGH SCHOOL BOYS. THREE ACRES WILL BE SUFFICIENT FOR THE ACTIVITIES OF THIS GROUP. THE LAST AREA SHOULD BE FOR INTERSCHOLASTIC ATHLETIC COMPETITION. VARIOUS PLANS ARE SUGGESTED WHICH REQUIRE DIFFERING AMOUNTS OF SPACE. SOME AREAS MAY BE ABLE TO CONSIDER WINTER ACTIVITIES ALSO. THIS SITE WILL DETERMINE WHETHER OR NOT SLIDING WILL BE FEASIBLE, AND SKATING IS YET ANOTHER CONSIDERATION. NUMEROUS DRAWINGS OF REGULATION FIELDS AND COURTS ARE PROVIDED. (RH)

Order from EDRS as: ED 18923

MF $0.25 HC $1.24

ERIC/CEF DOCUMENT NO. EF001592 ED 18968 DISPOSITION-CERS 1

SUWANNEE AREA PHYSICAL EDUCATION PROJECT (INNOVATIONS IN ELEMENTARY PHYSICAL EDUCATION EQUIPMENT)

COLUMBIA COUNTY BOARD OF PUBLIC INSTRUCTION, FLORIDA

045 PAGES

DESCRIPTORS- *ELEMENTARY SCHOOLS, *EQUIPMENT, *EQUIPMENT STANDARDS, *PHYSICAL ACTIVITIES, *PHYSICAL FITNESS

THE APPARATUS, EQUIPMENT, AND COURSES DESCRIBED IN THIS REPORT ARE PURPORTED TO BE DESIGNED TO DEVELOP A HIGH LEVEL OF PHYSICAL FITNESS AND TO IMPROVE MOTOR SKILLS, AGILITY AND BALANCE. INFORMATION ON EQUIPMENT COST, SAFETY FACTORS, MAINTENANCE, AND PLAYGROUND PLACEMENT FOR DIFFERENT TYPES OF EQUIPMENT IS CITED. SPECIFICATIONS ARE GIVEN FOR OBSTACLE COURSES AND EQUIPMENT, HARD SURFACED GAME AREAS AND EXERCISE EQUIPMENT. DIAGRAMS FOR VARIOUS TYPES OF OUTDOOR APPARATUS ARE ALSO INCLUDED. (GM)

Order from EDRS as: ED 18968

MF $0.25 HC $1.88

ERIC/CEF DOCUMENT NO. EF003866

DISPOSITION-EDC 1

PLAYING FIELDS AND HARD SURFACE AREAS

DEPARTMENT OF EDUCATION AND SCIENCE, LONDON, ENGLAND

PUBLISHED - 1966

IN - BUILDING BULL - 28

092 PAGES

DESCRIPTORS - *ATHLETIC FIELDS; *FACILITY GUIDELINES; *PHYSICAL EDUCATION FACILITIES; *PLAYGROUNDS; FACILITY REQUIREMENTS

GUIDELINES ARE PRESENTED REGARDING THE PLANNING, LAYOUT, CONSTRUCTION, AND MAINTENANCE OF OUTDOOR PLAYING FIELDS FOR PHYSICAL EDUCAITON. CONSIDERATION IS GIVEN TO THE DUAL USE OF PLAYING FIELDS BY THE SCHOOL AND THE COMMUNITY, THE PLANNING OF HARD SURFACE PLAYING AREAS, AND SPECIFICATIONS AND BILLS OF QUANTITIES. MAINTENANCE COSTS OF GRASS PLAYING FIELDS, SPECIFICATIONS FOR PLAYING FIELDS AND OTHER GAMES PROVISIONS, AND SEED MIXTURES AND SEED-TURF ANALYSES ARE SET FORTH IN THE APPENDICES. DIAGRAMMATIC ILLUSTRATIONS ARE INCLUDED THROUGHOUT. (FS)

Availability:

Will be reported in RIE, 1970

British Information Services
845 Third Avenue
New York, New York 10022 ($1.50)

ERIC/CEF DOCUMENT NO. EF000164 DISPOSITION-CERS 2

HOW TO BUILD A TRACK

BY - JONES, THOMAS E.
WISCONSIN UNIVERSITY, MADISON, EXTENSION DIVISION

PUBLISHED - 55

087 PAGES

DESCRIPTORS - *ATHLETIC FIELDS; *BUILDING MATERALS; *CONSTRUCTION (PROCESS); *FACILITY REQUIREMENTS; *PHYSICAL EDUCATION FACILITIES; ATHLETICS; PHYSICAL FACILITIES

IN CONSIDERING VARIOUS ASPECTS OF TRACK CONSTRUCTION, INFORMATION IS PROVIDED REGARDING -- (1) GENERAL REQUIREMENTS FOR A STANDARD TRACK, (2) SELECTION OF A SITE, (3) CONSTRUCTION OF THE BODY OF THE TRACK, (4) TRACK MEASUREMENTS AND MARKERS, (5) CARE OF THE TRACK, (6) SPECIFICATIONS FOR CONSTRUCTION OF TAKEOFFS, RUNWAYS, CIRCLES, AND FIELD AREAS, (7) MINIMUM REQUIREMENTS FOR HIGH SCHOOL TRACKS, (8) CONSTRUCTION AND CARE OF INDOOR TRACKS, AND (9) PREPARATION FOR CONDUCTING A TRACK MEET. DIAGRAMS AND SPECIFICATIONS OF SOME OF THE BEST TRACKS IN THE WORLD ARE INCLUDED. (FS)

Availability:

University of Wisconsin
Department of Physical Education
Extension Division
Madison, Wisconsin 53706

ERIC/CEF DOCUMENT NO. EF000889 DISPOSITION-UFRC 2

TENNIS COURT LAYOUT AND CONSTRUCTION FOR SCHOOL CLASS GROUP INSTRUCTION AND SCHOOL-COMMUNITY RECREATION

BY- GUTHRIE, LUELL W. AND WILLIAMS, GEORGIA R.
STANFORD UNIVERSITY, CALIFORNIA, SCHOOL PLANNING LABORATORY

PUBLISHED- 59

033 PAGES

DESCRIPTORS- *PHYSICAL EDUCATION FACILITIES, *RECREATIONAL FACILITIES, ATHLETICS, EDUCATIONAL FACILITIES, PHYSICAL EDUCATION, RECREATION, PLAYGROUNDS

RECOMMENDATIONS ARE PRESENTED REGARDING THE LAYOUT AND CONSTRUCTION OF TENNIS COURTS. IN REGARD TO LAYOUT, INFORMATION IS PRESENTED PERTAINING TO SITE LOCATION AND SELECTION, NUMBER OF COURTS, COURT ORIENTATION, AND COURT ARRANGEMENT. SOME OF THE CONSTRUCTION FACTORS GIVEN CONSIDERATION INCLUDE SURFACING MATERIALS, SLOPES AND DRAINAGE, COURT EQUIPMENT AND ACCESSORIES, AND LANDSCAPING. FINANCING, COST ANALYSIS, AND MAINTENANCE FACTORS ARE ALSO CONSIDERED. (FS)

Availability:

School Planning Laboratory
School of Education
Stanford University
Stanford, California 94305

ERIC/CEF DOCUMENT NO. EF002928 DISPOSITION-EDC 2

PLANNING OUTDOOR AREAS FOR ATHLETICS AND RECREATION

PUBLISHED - AUGUST 1967

IN - AMERICAN SCHOOL AND UNIVERSITY; V39 N12 P23-26, 45 AUGUST 1967

005 PAGES

DESCRIPTORS - *ATHLETIC FIELDS; *FACILITY GUIDELINES; *FACILITY REQUIREMENTS; *PLANNING; *RECREATIONAL FACILITIES; ATHLETIC EQUIPMENT; PHYSICAL RECREATION PROGRAMS

FACILITY REQUIREMENTS AND GUIDELINES ARE PRESENTED FOR THE PLANNING OF OUTDOOR ATHLETIC AND RECREATION AREAS. CONSIDERATION IS GIVEN TO AREAS FOR EACH OF THE FOLLOWING ACTIVITIES--(1) BADMINTON, (2) BASEBALL, (3) BASKETBALL, (4) FIELD HOCKEY, (5) FOOTBALL, (6) SHUFFLEBOARD, (7) SOCCER, (9) TENNIS, (10) TRACK AND FIELD, AND (11) VOLLEYBALL. INFORMATION IS INCLUDED REGARDING ARE DIMENSIONS, SURFACING MATERIALS, FENCING, GRADING, DRAINAGE, LIGHTING, ORIENTATION, AND PROVISIONS FOR EQUIPMENT. ILLUSTRATIVE PHOTOGRAPHS ARE ALSO INCLUDED. (FS)

Availability:

Buttenheim Publishing Corporation
757 Third Avenue
New York, New York 10017

ERIC/CEF DOCUMENT NO. EF001312 ED 16371 DISPOSITION-CERS 1

FACILITIES AND SPACE ALLOCATIONS FOR PHYSICAL EDUCATION OUTDOOR TEACHING STATIONS FOR ELEMENTARY AND INTERMEDIATE PUBLIC SCHOOLS (BULLETIN 40, 1967 EDITION)

BY- RAFFERTY, MAX
CALIFORNIA STATE DEPARTMENT OF EDUCATION, SACRAMENTO

PUBLISHED- 67

029 PAGES

DESCRIPTORS- *ATHLETIC ACTIVITIES, *PHYSICAL ACTIVITIES, *PHYSICAL EDUCATION, *RECREATIONAL ACTIVITIES, PLANNING, ELEMENTARY SCHOOLS, SCHOOL PLANNING

THE PURPOSE OF THIS BULLETIN IS TO PRESENT RECOMMENDATIONSFOR MINIMUM OUTDOOR FACILITIES AND SPACE ALLOCATIONS FOR A BALANCED PHYSICAL EDUCATION PROGRAM FOR GRADES K-8 IN PUBLIC SCHOOLS. IN THE BULLETIN ONLY SPACE REQUIREMENTS FOR PHYSICAL EDUCATION TEACHING STATIONS ARE DESCRIBED. INCLUDED IN THE BULLETIN ARE RECOMMENDATIONS FOR SITE PLANNING AND SPACE ARRANGEMENTS AS THEY ARE RELATED TO GRADE LEVEL, TYPES OF SURFACING AND PUPIL-SPACE RATIOS. SUGGESTIONS ARE MADE FOR APPARATUS ANDGAME AREA SPACE ALLOCATIONS. ALSO INCLUDED ARE CHARTS, DIAGRAMS AND MATRICES PERTAINING TO THE K-8 PHYSICAL EDUCATION PROGRAMS. (GM)

Order from EDRS as: ED 16371
MF $0.25 HC $1.24

ERIC/CEF DOCUMENT NO. EF000855 DISPOSITION-CERS 3

CARE AND OPERATION OF STADIA

BY- BUSH, GEORGE H.
ASSOCIATION OF SCHOOL BUSINESS OFFICIALS, EVANSTON, ILLINOIS

PUBLISHED-OCT55
IN- PROCEEDINGS ASSOCIATION OF SCHOOL BUSINESS OFFICIALS OF THE UNITED STATES AND CANADA 41ST CONVENTION, CHICAGO, ILLINOIS, OCT. 16-20, 1955

008 PAGES

DESCRIPTORS- *RECREATIONAL FACILITIES, *SCHOOL MAINTENANCE, *SCHOOL SAFETY

CONSIDERATION IS GIVEN TO PROBLEMS REGARDING THE MAINTENANCE AND OPERATION OF STADIA FOR SCHOOL PURPOSES. (FS)

Availability:

George H. Bush
Purdue University
Fayette, Indiana 47907

ERIC/CEF DOCUMENT NO. EF000401 DISPOSITION-CERS 3

SCHOOL SITES SELECTION AND ACQUISITION

CONNECTICUT STATE DEPARTMENT OF EDUCATION, HARTFORD

PUBLISHED-JUN00
IN- SCHOOL BUILDING ECONOMY SERIES NO. 3

019 PAGES

DESCRIPTORS- *PHYSICAL ACTIVITIES, *PLANNING, *RECREATIONAL PROGRAMS, *SCHOOL LOCATION, *SCHOOL SIZE, ATHLETIC ACTIVITIES, COMMUNITY RECREATION PROGRAMS, PHYSICAL RECREATION PROGRAMS, SCHOOL PLANNING

BASIC CONSIDERATIONS, CRITERIA, AND PROCEDURES ARE PRESENTED REGARDING THE SELECTION AND ACQUISITION OF SCHOOL SITES. SPACE REQUIRED FOR COMMON OUTDOOR GAMES IS CONSIDERED, AND SUGGESTIONS ARE MADE REGARDING SPACE ALLOTMENTS FOR OUTDOOR PHYSICAL EDUCATION FACILITIES. (FS)

Availability:

Connecticut State Department of Education
Hartford, Connecticut 06115

ERIC/CEF DOCUMENT NO. EF000066 ED 13532 DISPOSITION-EDC- 1

SCHOOL SITE ANALYSIS AND DEVELOPMENT

CALIFORNIA STATE DEPARTMENT OF EDUCATION, SACRAMENTO, BUREAU OF SCHOOL PLANNING

PUBLISHED- 66

043 PAGES

DESCRIPTORS- *PLAYGROUNDS, *RECREATIONAL FACILITIES, *SCHOOL PLANNING , *SCHOOL LOCATION , *SITE SELECTION, ATHLETIC ACTIVITIES, EDUCATIONAL FACILITIES, EDUCATIONAL NEEDS, EDUCATIONAL PLANNING, EDUCATIONAL SPECIFICATIONS, PARKING AREAS, PHYSICAL FACILITIES, PLAYGROUND ACTIVITIES, SCHOOL SIZE, SCHOOL SPACE

THIS STUDY REPRESENTS A SEARCH FOR A SYSTEM OF DETERMINING THE AMOUNT OF LAND REQUIRED TO CONDUCT THE EDUCATIONAL PROGRAMS OFFERED BY THE CALIFORNIA PUBLIC SCHOOLS. DATA ARE CONTAINED IN TABLES THAT PROVIDE A BASIS FOR DETERMINING THE SITE SIZE FOR A SCHOOL THAT IS BEING DESIGNED TO SERVE A SPECIFIC ENROLLMENT SIZE AND GRADE LEVEL RANGE. THE SITE FACTORS INCLUDED WERE--(1) LAND FOR OUTDOOR PHYSICAL EDUCATION (2) DEVELOPED BUILDING SITE (3) PARKING AND ACCESS ROADS (4) PERCENT FACTOR FOR LAYOUT. SITE REQUIREMENT CATEGORIES INCLUDED WERE--(1) SMALL SCHOOLS (FEWER THAN 7 CLASSROOMS) (2) ELEMENTARY GRADES (3) GRADES 7 THROUGH 9 (4) GRADES 9 THROUGH 12. SUPPORTING THIS DATA ARE DIAGRAMS OF SPACE MODULES REPRESENTING THE VARIOUS FACILITY LAYOUTS. MODULE COMBINATION DEPENDS ON THE VARIOUS ENROLLMENT SIZES GIVEN. TO FACILITATE THIS ANALYSIS, A BRIEF SEQUENTIAL SITE PLAN DEVELOPMENT PROCEDURE AND LIST OF ESSENTIAL SITE SURVEY DATA ARE INCLUDED. (MH)

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ERIC/CEF DOCUMENT NO. EF001133 DISPOSITION-EDC- 2

PLAYGROUND FACILITIES FOR RURAL AND SMALL ELEMENTARY SCHOOLS

BY- CORNACCHIA, HAROLD J. AND NIXON, JOHN E.
STANFORD UNIVERSITY, CALIFORNIA, SCHOOL OF EDUCATION

PUBLISHED- 55
IN- EDUCATIONAL ADMINISTRATION, MONOGRAPH, NO. 4

50 PAGES

DESCRIPTORS- *ELEMENTARY SCHOOLS, *PHYSICAL EDUCATION, *PLAYGROUNDS, *RURAL SCHOOLS, *SCHOOL DESIGN, ATHLETIC ACTIVITIES, EQUIPMENT, SCHOOL LOCATION, SCHOOL PLANNING

THIS MONOGRAPH WAS WRITTEN TO DEAL WITH THE OBJECTIVES, ORGANIZATION, AND INSTRUCTIONAL REQUIREMENTS FOR PLAYGROUND EQUIPMENT AND ITS ARRANGEMENT IN THE EDUCATIONAL PROGRAM OF RURAL AND SMALLER ELEMENTARY SCHOOLS, WITH THE TRANSLATION INTO ACTUAL CONSTRUCTION AND OPERATIONAL TERMS FOR ARCHITECTS, SCHOOL PLANNERS, AND BUILDERS. ONE OF THE MAJOR CONCERNS IS THE DEMONSTRATION OF THE NEED FOR LARGER ELEMENTARY SCHOOL SITES IN SPECIFIC TERMS THROUGH THE PRESENTATION OF ACTUAL SPACE REQUIREMENTS OF VARIOUS PLAY AREAS NEEDED IN AN ADEQUATE PHYSICAL EDUCATION AND RECREATION PROGRAM FOR DIFFERENT SIZED SCHOOLS. SUBJECT HEADINGS INCLUDE--(1) THE IMPORTANCE OF ADEQUATE PLAYGROUNDS IN SMALL ELEMENTARY SCHOOLS, (2) CHARACTERISTICS OF AN ADEQUATE SCHOOL PLAYGROUND, (3) A DESIRABLE EDUCATION PROGRAM FOR ELEMENTARY SCHOOLS, (4) PLAYGROUND REQUIREMENTS FOR ONE AND TWO TEACHER ELEMENTARY SCHOOLS, (5) THREE AND FOUR TEACHER, (6) FIVE TO EIGHT TEACHER, AND (7) OTHER GENERAL CONSIDERATIONS. (MM)

Availability:

School of Education
Stanford University
Stanford, California 94305

ERIC/CEF DOCUMENT NO. EF001139 ED 18946 DISPOSITION-EDC- 1

PLANNING YOUR PLAYGROUND

J. E. BURKE COMPANY, FOND DU LAC, WISCONSIN

041 PAGES

DESCRIPTORS- *EQUIPMENT, *FACILITY GUIDELINES, * PLANNING, *PLAYGROUNDS, *RECREATIONAL FACILITIES, HEALTH ACTIVITIES, MAINTENANCE

THIS ARTICLE REVIEWS THE VALUE OF PLAYGROUND APPARATUS, FACTORS IN SELECTION OF EQUIPMENT; AND CONSIDERATIONS IN PLANNING PLAYGROUNDS. ALSO INCLUDED ARE SECTIONS ON TYPES OF PLAY DEVICES, CONSTRUCTION OF PLAYGROUND APPARATUS, UNUSUAL PLAYGROUND APPARATUS, CARE OF EQUIPMENT, SOURCES OF ACCIDENTS OR DANGERS ON PLAYGROUNDS, AND EQUIPMENT SPACE REQUIREMENTS. ASSEMBLY, ERECTION, AND FIELD PAINTING SUGGESTIONS ARE ALSO DISCUSSED. HEALTHFUL EXERCISES FOR OUTDOOR GYM SETS AND SURFACING PLAY AREAS ARE EXPLAINED. SEVERAL PLAYGROUND LAYOUT AND SPECIFICATION DIAGRAMS ARE INCLUDED. (RK)

Order from EDRS as: ED 18946

MF $0.25 HC $1.72

ERIC/CEF DOCUMENT NO. EF003116 DISPOSITION-EDC 1

THE PREPARED ENVIRONMENT AND ITS RELATIONSHIP TO LEARNING

BY- LOEFFLER, MARGARET HOWARD

PUBLISHED- 68

AVAILABLE FROM- MARGARET HOWARD LOEFFLER, DIRECTOR, PRIMARY DIVISION, CASADY SCHOOL OKLAHOMA CITY, OKLAHOMA

031 PAGES

DESCRIPTORS- *DESIGN NEEDS, *EARLY CHILDHOOD EDUCATION, *EDUCATIONAL EQUIPMENT, *LEARNING, *SCHOOL ENVIRONMENT, *CARRELS, CLASSROOM DESIGN, FURNITURE DESIGN, INDIVIDUAL NEEDS, PLAYGROUNDS, PLAY THERAPY, SCHOOL DESIGN

A PROPOSAL TO CAREFULLY EXAMINE SOME CURRENT THINKING ON EARLY LEARNING AND ATTEMPTS TO PROJECT THEIR IMPLICATIONS INTO THE DESIGN OF A UNIQUE LEARNING FACILITY THAT WOULD OFFER A SUPPORTIVE AND STIMULATING ENVIRONMENT FOR YOUNG CHILDREN TWO TO SIX YEARS OF AGE, PROVIDING FOR THEIR INDIVIDUAL NEEDS AND DIFFERENCES. THE CONCEPTS EXAMINED WERE SELECTED BECAUSE IT WAS FELT THAT WITHIN THEIR BROAD FRAMEWORK COULD BE INCLUDED A WIDE AND VARIED RANGE OF SUBJECT MATTER THAT SEEMED TO BE RELEVANT TO EARLY LEARNING AND FACILITY DESIGN. THE IDEAS PRESENTED SHOULD STIMULATE THE THINKING OF ALL THOSE CONCERNED WITH THE EDUCATION OF THE VERY YOUNG. INCLUDED ARE SECTIONS ON--(1) DEPENDENCE, INDEPENDENCE, INTERDEPENDENCE, (2) EARLY STIMULATION AND LEARNING, (3) MANAGEABLE COMPLEXITY, (4) THE PLAY OF YOUNG CHILDREN, AND (5) THE ROLE OF THE TEACHER. (RK)

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ERIC/CEF DOCUMENT NO. EF000187 DISPOSITION-CERS 3

CURRICULUM AND THE ELEMENTARY SCHOOL PLANT

BY- HEFFERNAN, HELEN AND BURSCH, CHARLES
ASSOCIATION FOR SUPERVISION AND CURRICULUM DEVELOPMENT,
WASHINGTON, D.C.

PUBLISHED- 58

082 PAGES

DESCRIPTORS- *CURRICULUM, *ELEMENTARY SCHOOLS, *PHYSICAL FACILITIES, *EDUCATIONAL PLANNING, EDUCATIONAL FACILITIES, PLANNING, SCHOOL PLANNING, BUILDING DESIGN, ACOUSTICAL ENVIRONMENT, PLAYGROUNDS, FACILITY UTILIZATION RESEARCH

Availability:

Assn. for Supervision & Curric. Dev.
1201 Sixteenth Street, N.W.
Washington, D.C. 20036

ERIC/CEF DOCUMENT NO. EF001002 ED 23253 DISPOSITION-EDC- 1

NEW BUILDING MANUAL (ELEMENTARY SCHOOL)

BY- VAN HOOSE, RICHARD
JEFFERSON COUNTY BOARD OF EDUCATION, LOUISVILLE, KENTUCKY

PUBLISHED-MAY65

084 PAGES

DESCRIPTORS- *EDUCATIONAL SPECIFICATIONS, *ELEMENTARY SCHOOLS, *FACILITY GUIDELINES, *SCHOOL PLANNING, *SPACE UTILIZATION, CLASSROOMS, CURRICULUM, DINING FACILITIES, EDUCATIONAL OBJECTIVES, EQUIPMENT, FURNITURE, HANDICAPPED, HEALTH FACILITIES, PLAYGROUNDS

A GUIDE FOR PLANNING ELEMENTARY SCHOOL FACILITIES DESIGNED TO AID ARCHITECTS AND SCHOOL STAFF WHEN INTERPRETING THE NEEDS OF CHILDREN AND THE SCHOOL PROGRAM IN RELATION TO SPACE, ARRANGEMENT, AND FACILITIES. GENERAL INFORMATION REGARDING SCHOOL PLANNING, EDUCATIONAL OBJECTIVES, CURRICULUM, AND INSTRUCTION TO ARCHITECTS IS CONTAINED. VARIOUS KINDS OF SPACE, FACILITIES, FURNITURE, AND EQUIPMENT NEEDED FOR THE FOLLOWING AREAS ARE DESCRIBED--(1) GENERAL OFFICE, PRINCIPALS OFFICE, CONFERENCE ROOM, MIMEOGRAPH ROOM, BOOK STORE, HEALTH ROOM, VAULT AND TEACHERS LOUNGE AND WORK ROOM, (2) CLASSROOMS FOR PRIMARY, MIDDLE AND UPPER GRADES, (3) OTHER INSTRUCTIONAL AREAS, SUCH AS SPECIAL ECUCATIN, PHYSICALLY HANDICAPPED, HEARING HANDICAPPED, SPEECH CORRECTION, EDUCABLE MENTALLY HANDICAPPED, TRAINABLE MENTALLY HANDICAPPED, CORRECTIVE READING, MUSIC ROOM, TV CLASSROOM, TV WORK AND CONFERENCE ROOMS, LIBRARY, LIBRARY WORK ROOM, MATERIALS CENTER, PHYSICAL EDUCATION ROOM, BLACKTOP PLAY AREA, AND PRIMARY AND UPPER GRADE PLAYGROUNDS, AND (4) UTILITY AREAS SUCH AS LUNCHROOMS, KITCHEN, REFRIGERATED STORAGE, DRY STORAGE ROOM, OFFICE AREA, DRESSING ROOM AND RESTROOM, MECHANICAL ROOM, AND OTHER CUSTODIAL STORAGE. SEPARATE SECTIONS INCLUDE LIGHTING AND THE RELATIONSHIP OF SCHOOL SITE TO BUILDING AND LOCATION, WALKS AND DRIVES, PARKING AREAS, GRADING, LANDSCAPING, AND FENCING. (RK)

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ERIC/CEF DOCUMENT NO. EF003839 DISPOSITION-EDC 1

CREATIVE PLAYGROUNDS AND RECREATION CENTERS

BY - LEDERMANN, ALFRED; AND TRACHSEL, ALFRED

PUBLISHED - 1968

DESCRIPTORS - *EQUIPMENT; *PHYSICAL EDUCATION FACILITIES; *PLANNING; *PLAYGROUNDS; *RECREATIONAL FACILITIES; DESIGN PREFERENCES; PARKS; PHYSICAL FACILITIES; PHYSICALLY HANDICAPPED

THIS COMPREHENSIVE GUIDEBOOK (WRITTEN IN BOTH ENGLISH AND GERMAN) PERTAINS TO VARIOUS ASPECTS OF PLANNING AND DESIGNING PLAYGROUNDS AND COMMUNITY CENTERS. THE INTRODUCTORY CHAPTER DISCUSSES THE EDUCATIONAL AND FORMATIVE ASPECTS OF PLAYGROUNDS, CITY PLANNING PREREQUISITES, AND THE EFFECTS OF SOCIOLOGICAL CONDITIONS BEFORE INITIAL PLANNING IS BEGUN. THE MAIN BODY TREATS TRADITIONAL CHILDREN'S PLAYGROUNDS, GROUPED ACCORDING TO TYPE, AND LEISURE CENTERS FOR YOUNG AND OLD. MANY OF THE LATEST EXAMPLES ARE INCLUDED, PARTICULARLY THOSE FROM THE UNITED STATES. SPECIAL PROJECTS SUCH AS THERAPEUTIC PLAYGROUNDS FOR CHILDREN'S HOSPITALS ARE ILLUSTRATED, AS WELL AS EXPERIMENTAL SCHOOLYARDS. A SECTION IS ALSO INCLUDED ON PLAYGROUND EQUIPMENT, WITH SPECIAL EMPHASIS GIVEN TO STRUCTURES THAT STIMULATE THE CREATIVE IMAGINATION OF THE CHILD. PHOTOGRAPHS AND DIAGRAMMATIC REPRESENTATIONS ARE PRESENTED THROUGHOUT. (FS)

Availability:

Will be reported in RIE, 1970

Frederick A. Praeger, Publisher
111 4th Avene
New York, New York 10003 ($15.00)

ERIC/CEF DOCUMENT NO. EF002117 DISPOSITION-EDC- 2

ASPHALT PAVED RUNNING TRACKS

ASPHALT INSTITUTE NORTHERN DIVISION, SAINT PAUL, MINN.

REPORT/SERIES NO.- M-236

040 PAGES

DESCRIPTORS- *ASPHALT, *ATHLETIC FIELDS, *BUILDING MATERIALS, *FACILITY CASE STUDIES, *PHYSICAL EDUCATION

THE INCREASING INTEREST AND MORE WIDESPREAD CONSTRUCTION OF ALL-WEATHER HIGH SCHOOL AND COLLEGE RUNNING TRACKS HAVE RESULTED IN NUMEROUS INQUIRIES FOR INFORMATION ABOUT ASPHALT PAVED RUNNING TRACKS. THE ASPHALT INSTITUTE HAS NO SPECIFIC PUBLICATION, SPECIFICATIONS, OR RECOMMENDATIONS ON THE SUBJECT. TO ANSWER SUCH REQUESTS, THEREFORE, A COMPILATION OF VARIOUS INSTALLATIONS AND PERTINENT INFORMATION HAS BEEN PREPARED AND IS CONTAINED IN THIS REPORT. THE BROAD CLASSIFICATION OF ASPHALT RUNNING TRACKS DISCUSSED ARE AS FOLLOWS--(1) GRASSTEX, (2) RUBBER PARTICLE ASPHALT HOT MIX (BLUE), (3) LATEX ASPHALT HOT MIX (WHITE), AND (4) CONVENTIONAL SHEET AND SAND-ASPHALT HOT MIX (BUFF). THESE RUNNING TRACKS MAY BE EITHER INDOOR OR OUTDOOR. IN ADDITION, THE FOLLOWING TWO SECTIONS ARE ALSO INCLUDED--'GRASSTEX TRACKS...NOW IN COLOR,' AND 'CONSTRUCTION OF A RUBBER-ASPHALT TRACK.' (RK)

Availability:

The Asphalt Institute Northern Division
276 North Snelling Avenue
Saint Paul, Minnesota 55104

ERIC/CEF DOCUMENT NO. EF001061 DISPOSITION-EDC- 2

LAYKOLD-ASPHALT SPECIALTIES

CHEVRON ASPHALT COMPANY, SAN FRANCISCO, CALIFORNIA

PUBLISHED- 66

113 PAGES

DESCRIPTORS- *ATHLETIC FACILITIES, *BUILDING MATERIALS, *RECREATIONAL FACILITIES, ATHLETIC ACTIVITIES, PHYSICAL EDUCATION, RECREATIONAL ACTIVITIES

DETAILED SPECIFICATIONS ARE GIVEN FOR CHEVRON ASPHALT MATERIALS WITH RESPECT TO RUNNING TRACKS. AREAS DISCUSSED INCLUDE--(1) MATERIALS, (2) PATCHING HOLES AND DEPRESSIONS, (3) CLEANING, (4) MIXING, (5) LINES FOR LANE MARKING, (6) APPLICATION RATE, (7) FORMULATION, (8) CURBS, (9) SLOPES, (10) TABULATION OF AREAS FOR TYPICAL TRACKS, (11) TRACK LAYOUT, (12) FINISH, AND (13) DRYING. (JT)

Availability:

Chevron Asphalt Company
555 Market Street
San Francisco, California 94105

ERIC/CEF DOCUMENT NO. EF000160 DISPOSITION-CERS 3

THE 20TH CENTURY TRACK

BY- BENNETT, THOMAS C.
WISCONSIN UNIVERSITY, MADISON, REGENTS

089 PAGES

DESCRIPTORS- *PHYSICAL EDUCATION FACILITIES, *ATHLETICS, *RECREATIONAL FACILITIES, *TRACK, EDUCATIONAL FACILITIES

INFORMATION IS PRESENTED REGARDING THE CONSTRUCTION OF ALL-WEATHER RESILIANT SURFACING FOR TRACK AND FIELD. THE DIFFERENT KINDS OF SURFACES AND HOW THEY ARE CONSTRUCTED AND THE PROBABLE COSTS ARE MADE AVAILABLE IN THIS ISSUE. IN ADDITION, PLANNING, MAINTENANCE, AND MANY TIPS AND SUGGESTIONS ARE PRESENTED TO HELP MAKE IT EASIER TO BUILD A TRACK. PHOTOGRAPHS AND DIAGRAMMATIC REPRESENTATIONS ARE INCLUDED THROUGHOUT. (FS)

Availability:

University of Wisconsin
Department of Physical Education - Extension Division
Madison, Wisconsin 53706

ERIC/CEF DOCUMENT NO. EF002259 DISPOSITION-EDC 3

ASPHALT PAVING CAMPUS ROADS AND SIDEWALKS

PUBLISHED-JAN67

003 PAGES

DESCRIPTORS- *BUILDING MATERIALS, *CONSTRUCTION COSTS, *CONSTRUCTION INDUSTRY, *PARKING FACILITIES, *PEDESTRIAN TRAFFIC, ANCILLARY SERVICES, PHYSICAL EDUCATION FACILITIES, SPEECHES, TRAFFIC CIRCULATION

MISAPPLICATION OF ASPHALT IN PAVING AND GUTTERING HAS BEEN THE CAUSE OF MISTAKEN BELIEFS CONCERNING THE DURABILITY OF ASPHALT AS A CONSTRUCTION MATERIAL FOR ROADS, SIDEWALKS, GUTTERS, AND ATHLETIC FACILITIES. PROPER SUBGRADE CONSTRUCTION, FORMING, AND COMPACTION WILL GIVE ASPHALT AS GREAT LONGEVITY AS OTHER TYPES OF CONSTRUCTION MATERIALS. THE PROPER CHOICE OF COLD OR HOT ASPHALT MIXES IS GOVERNED BY THE WEIGHT AND VOLUME OF INTENDED TRAFFIC. COLD MIXES LAST LONGER UNDER LOW TRAFFIC VOLUMES. NEW USES AND APPLICATION METHODS WERE DISCUSSED. PARTICULAR STRESS WAS GIVEN TO NEW APPLICATION EQUIPMENT NOW AVAILABLE WHICH EXTENDS THE LIFE OF ASPHALT CONSTRUCTED FACILITIES. (RLP)

Availability:

The Asphalt Institute
College Park, Maryland 20740

ERIC/CEF DOCUMENT NO. EF001108 ED 17131 DISPOSITION-EDC- 1

ASPHALT FOR OFF-STREET PAVING AND PLAY AREAS (3RD EDITION)

ASPHALT INSTITUTE, COLLEGE PARK, MARYLAND

PUBLISHED-MAY65
IN- MANUAL SERIES NO. 9 (MS-9)

039 PAGES

DESCRIPTORS- *BUILDING MATERIALS, *CONSTRUCTION (PROCESS), *PARKING AREAS, *PHYSICAL EDUCATION, *PLAYGROUNDS, DESIGN NEEDS, MAINTENANCE

THIS PAMPHLET DISCUSSES THE ALTERNATIVE METHODS, APPLICATIONS, AND TECHNICAL CONSIDERATIONS FOR OFF-STREET PAVING AND PLAY AREAS. OFF-STREET PAVING INCLUDES--(1) ASPHALT-PAVED PARKING AREAS, (2) ROOF DECK PARKING AREAS, (3) ASPHALT-PAVED DRIVEWAYS, (4) ASPHAT-PAVED SERVICE STATION LOTS, AND (5) SIDEWALKS. THE DISCUSSION OF PLAY AREAS INCLUDES--(1) PLAYGROUNDS, (2) TENNIS COURTS, AND (3) ASPHALT SWIMMING POOLS. SUGGESTIONS ARE GIVEN IN EACH AREA FOR SITE PREPARATION, DRAINAGE, ASPHALT MIXTURE, THICKNESS, BASE COURSE, AND SURFACE TREATMENT. A REFERENCE LIST IS GIVEN OF OTHER ASPHALT SOURCE BOOKS. (MM)

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ERIC/CEF DOCUMENT NO. EF001107 DISPOSITION-EDC- 2

ASPHALT PAVEMENTS FOR SCHOOL FACILITIES IN MICHIGAN (REFERENCE TO MICHIGAN STATE HIGHWAY DEPARTMENT CONSTRUCTION SPECIFICAT. IONS)

THE ASPHALT INSTITUTE, COLLEGE PARK, MARYLAND

PUBLISHED-SEP65

004 PAGES

DESCRIPTORS- *BUILDING MATERIALS, *SITE DEVELOPMENT, ASPHALTS, DRIVEWAYS, PARKING AREAS, PLAYGROUNDS

SPECIFICATIONS FOR THICKNESSES AND MATERIALS ARE GIVEN FOR VARIOUS PAVEMENT CLASSIFICATIONS. CONSTRUCTION RECOMMENDATIONS ARE GIVEN FOR--(1) ASPHALT CONCRETE SURFACE, (2) HOT-MIX ASPHALT BASE, (3) TOTAL COMPACTED GRADE, AND (4) SURFACE DRESSING. PAVEMENT USES CONSIDERED ARE--(1) SERVICE ROADS OR DRIVES, (2) PARKING AREAS, AND (3) PLAYGROUNDS. (MH)

Availability:

The Asphalt Institute
College Park, Maryland 20740

ERIC/CEF DOCUMENT NO. EF003813 DISPOSITION-UFRC 2

ARTIFICIAL TURF IS GROWING IN POPULARITY FOR ATHLETIC FIELDS

BY - GUTMAN, JAMES

PUBLISHED - SEPTEMBER 1969

IN - COLLEGE AND UNIVERSITY BUSINESS; V47 N3 P92-104 SEPTEMBER 1969

006 PAGES

DESCRIPTORS - *ATHLETIC FIELDS; *PHYSICAL EDUCATION FACILITIES; *TURF MANAGEMENT; ATHLETIC EQUIPMENT; FIELD HOUSES

SEVERAL SALIENT ISSUES ARE EXAMINED IN REGARD TO THE USE OF ARTIFICIAL TURF FOR ATHLETIC FIELDS. INITIAL INSTALLATION COSTS ARE DISCUSSED AS ARE DIRECT AND INDIRECT ECONOMIC ADVANTAGES AFFORDED BY THE USE OF ARTIFICIAL TURF. ADVANTAGES AND DISADVANTAGES OF ARTIFICIAL TURF ARE CONSIDERED INCLUDING SOME COMPARISONS BETWEEN THE PRINCIPAL PRODUCTS IN USE (TARTAN, ASTROTURF, AND GRASSTEX). FIELD MARKING AND TURF MAINTNANCE PROBLEMS ARE EXAMINED; SEVERAL POINTS ARE EXEMPLIFIED BY REFERRING TO ATHLETIC FIELDS IN WHICH ARTIFICIAL TURF IS NOW IN USE. COMMENTS BY STADIUM MANAGERS ARE INCLUDED. (FS)

Availability:

College and University Business
Circulation Department
1050 Merchandise Mart
Chicago, Illinois 60654

ERIC/CEF DOCUMENT NO. EF002783 DISPOSITION-EDC 2

GOODBYE TO THREE YARDS AND A CLOUD OF DUST

BY - JOHNSON, WILLIAM

PUBLISHED - JANUARY 1969

IN - SPORTS ILLUSTRATED; V30 N4 P37-39 JANUARY 27, 1969

003 PAGES

DESCRIPTORS - *ATHLETIC FIELDS; *LAND USE; *TURF MANAGEMENT; ATHLETIC EQUIPMENT

PROS AND CONS OF ARTIFICIAL TURF FOR FOOTBALL FIELDS ARE DISCUSSED. CONSIDERATION IS GIVEN TO OVERALL ECONOMIC, SAFETY, AND PERFORMANCE FEATURS OF SYNTHETIC TURF AND TO STRUCTURAL DETAILS OF SEVERAL DIFFERENT COMPANIES' TURF. COMMENTS BY NOTED COACHES, PLAYERS, AND OFFICIALS ARE INCLUDED. (FS)

Availability:

Time, Inc.
540 North Michigan Avenue
Chicago, Illinois 60611

INDOOR AND OUTDOOR PHYSICAL EDUCATION AREAS AND FACILITIES

ERIC/CEF DOCUMENT NO. EF000117 DISPOSITION-CERS 2

PLANNING AREAS AND FACILITIES FOR HEALTH, PHYSICAL EDUCATION, AND RECREATION BY PARTICIPANTS IN NATIONAL FACILITIES CONFERENCE

CHICAGO ATHLETIC INSTITUTE, ILLINOIS

PUBLISHED- 05
IN- REV. 1965

280 PAGES

DESCRIPTORS- *PHYSICAL EDUCATION, *PHYSICAL FACILITIES, *PLANNING, *RECREATIONAL FACILITIES, ATHLETIC ACTIVITIES, ATHLETIC PROGRAMS, ATHLETICS FACILITIES, HEALTH, HEALTH CONDITIONS, PHYSICAL RECREATION PROGRAMS, PLAYGROUNDS, RECREATIONAL ACTIVITIES

SPECIFIC INFORMATION IS PROVIDED IN THIS GUIDE TO PLANNERS OF AREAS AND FACILITIES FOR ATHLETICS, RECREATION, OUTDOOR EDUCATION, AND PHYSICAL AND HEALTH EDUCATION. PART ONE CONCERNS BASIC CONCEPTS PERTINENT TO THE AREA OF CONSIDERATION. THE AIMS OF PHYSICAL EDUCATION HEALTH AND SAFETY EDUCATION, AND RECREATION ARE LISTED. PLANNING PRINCIPLES, PLANNING UNITS, AND AREA TYPES ARE DISCUSSED. PART TWO DEALS WITH OUTDOOR AREAS AND FACILITIES. PLANNING TECHNIQUES ARE OUTLINED. SPECIFIC GUIDELINES FOR DEVELOPING RECREATION, PARK, SCHOOL, OUTDOOR, AND OUTDOOR EDUCATION AREAS ARE GIVEN. PART THREE IS CONCERNED WITH INDOOR FACILITIES. THE DISCUSSION IS BROKEN INTO ELEMENTARY AND SECONDARY SCHOOLS, COLLEGES AND UNIVERSITIES, RECREATION BUILDINGS, AND GENERAL BUILDING FEATURES. PART FOUR PERTAINS TO AQUATIC AREAS AND FACILITIES. DESIGN AND CONSTRUCTION OF SWIMMING POOLS ARE CONSIDERED FROM A TECHNICAL VIEWPOINT. DEVELOPMENT OF WATERFRONTS AND BEACHES IS ALSO DISCUSSED. PART FIVE DEALS WITH HEALTH AND SAFETY AREAS AND FACILITIES. FACILITY NEEDS RELATED TO THE SCHOOL HEALTH PROGRAM IN THE LIGHT OF THE SCHOOL'S PLACE IN THE COMMUNITY ARE DISCUSSED IN ONE CHAPTER AND SAFETY EDUCATION AREAS DEALING WITH DRIVER EDUCATION ARE DISCUSSED IN THE OTHER. THROUGHOUT THIS GUIDE SPECIFIC INFORMATION IS GIVEN TO GUIDE THE READER. SEVERAL APPENDICES INCLUDE INFORMATION ABOUT THE NATIONAL CONFERENCE ON AREAS AND FACILITIES FOR HEALTH, PHYSICAL EDUCATION, AND RECREATION, SPECIFIC DIAGRAMS OF VARIOUS TYPES OF ATHLETIC COURTS, RULES SOURCES, REQUIREMENTS OF THE AGING AND DISABLED, CHECK LISTS FOR PLANNERS, AND A GLOSSARY. COPIES OF THIS DOCUMENT MAY BE OBTAINED FROM THE ATHLETIC INSTITUTE, MERCHANDISE MART, CHICAGO, ILLINOIS 60654, OR FROM AMERICAN ASSOCIATION FOR HEALTH, PHYSICAL EDUCATION, AND RECREATION, 1201 18TH STREET, N.W., WASHINGTON, D.C. 20036. (RH)

Availability:

The Athletic Institute
Merchandise Mart
Chicago, Illinois 60654

ERIC/CEF DOCUMENT NO. EF000055 DISPOSITION-EDC 1

A GUIDE FOR PLANNING PHYSICAL EDUCATION AND ATHLETIC FACILITIES, REV. 1964

NEW JERSEY, STATE DEPARTMENT OF EDUCATION, TRENTON

PUBLISHED - 1964

050 PAGES

DESCRIPTORS - *ATHLETIC EQUIPMENT; *ATHLETIC FIELDS; *GYMNASIUMS; *PHYSICAL EDUCATION FACILITIES; *RECREATIONAL FACILITIES; ATHLETIC ACTIVITIES; EDUCATIONAL FACILITIES; FIELD HOUSES; LOCKER ROOMS; PHYSICAL FACILITIES; SCHOOL SPACE

THIS STUDY EXAMINES PHYSICAL EDUCATION FACILITIES, THEIR PHYSICAL NEEDS, AND RELATED DESIGN CONSIDERATIONS. A SYSTEM OF DETERMINING THE TOTAL NUMBER OF TEACHING STATIONS NEEDED IS GIVEN TO AID INITIAL REQUIREMENT ANALYSIS. INDOOR FACILITIES ANALYZED INCLUDE--(1) THE GYMNASIUM, IN TERMS OF LOCATION, SIZE, DESIGN FEATURES, AND RELATED COMPONENTS, (2) AUXILIARY TEACHING ROOMS WHICH PROVIDE TEACHING STATIONS FOR SPECIALIZED FUNCTIONS, (3) LOCKER AND SHOWER ROOMS INCLUDING SUPPORTING FACILITIES AND DETAILS, AND (4) OFFICES FOR SUPERVISORY FUNCTIONS. PLANNING FACTORS FOR OUTDOOR FACILITIES INCLUDE LOCATION, SUPERVISORY CONTROL, SAFETY, UTILITY, SURFACING REQUIREMENTS, AND SPECIALIZED EQUIPMENT. REQUIREMENTS FOR INTER-SCHOLASTIC ATHLETICS AND RECREATIONAL FACILITIES ARE LISTED IN TERMS OF STORAGE AND USAGE REQUIREMENTS, WHILE IMPORTANT GENERAL FACTORS FOR FIELD HOUSE AND ATHLETIC FIELD DESIGN ARE GIVEN. A CHECKLIST FOR FACILITIES PLANNING IS INCLUDED TO HELP ELIMINATE COMMON ERRORS MADE IN DESIGN AND CONSTRUCTION. (MH)

Order from EDRS as: ED 14845

MF $0.25 HC $2.00

ERIC/CEF DOCUMENT NO. EF000195 DISPOSITION-CERS 3

CAMPUS PLANNING

BY- DUBEK, RICHARD P.

PUBLISHED- 63

324 PAGES

DESCRIPTORS- *CAMPUSES, *COLLEGE BUILDINGS, *COLLEGE PLANNING, *SCHOOL DESIGN, PLANNING, EDUCATIONAL COMPLEXES, SCHOOL BUILDINGS, SCHOOL PLANNING, MODULES, PLANNING MODULES, FACILITIES, EDUCATIONAL FACILITIES, INSTITUTIONAL FACILITIES, RECREATIONAL FACILITIES, RECREATION, GYMNASIUMS, ATHLETIC ACTIVITIES, PARKING AREAS, DESIGN, BUILDING DESIGN

Availability:

Reinhold Publishing Corporation
430 Park Avenue
New York, N. Y. 10022

ERIC/CEF DOCUMENT NO. EF000508 DISPOSITION-CERS 1

FACILITIES FOR PHYSICAL FITNESS

BY- MUSIAL, STAN

PUBLISHED-MAY65
IN- AMERICAN SCHOOL AND UNIVERSITY, MAY 65, PP. 53-56

3 PAGES

DESCRIPTORS- *FACILITY UTILIZATION RESEARCH, *PHYSICAL DEVELOPMENT, *PHYSICAL EDUCATION, *PLANNING, ATHLETIC ACTIVITIES, CURRICULUM PLANNING, PHYSICAL ACTIVITIES, PHYSICAL FITNESS, PHYSICAL RECREATION PROGRAMS, RECREATIONAL ACTIVITIES , SCHOOL PLANNING

THIS ARTICLE CITES THE LOW PRIORITY THAT PHYSICAL EDUCATION GENERALLY HAS IN CURRICULUM AND SCHOOL FACILITY PLANNING. IT ALSO CITES THE REASONS FOR DEVELOPING MORE ADEQUATE PHYSICAL EDUCATION FACILITIES--(1) OUR WAY OF LIFE NO LONGER PROVIDES VIGOROUS PHYSICAL ACTIVITY NECESSARY FOR HEALTHY DEVELOPMENT, (2) A DIRECT RELATIONSHIP EXISTS BETWEEN PHYSICAL FITNESS AND ACADEMIC AND SOCIAL PERFORMANCE, AND (3) INCREASED LEISURE TIME REQUIRES THAT PEOPLE BE PREPARED TO USE IT ENJOYABLY AND CONSTRUCTIVELY. THE ARTICLE INCLUDES RECOMMENDATIONS FOR FACILITIES FOR A HIGH SCHOOL PHYSICAL EDUCATION PROGRAM--BOYS AND GIRLS GYMNASIUMS WITH APPARATUS AND EXERCISE ROOMS, A SWIMMING POOL, PLAYING FIELDS, COURTS AND HARD SURFACE AREAS, AN OUTDOOR RECREATION AREA, AN OBSTACLE COURSE, ATHLETIC FACILITIES FOR WELL-ROUNDED INTRAMURAL AND VARSITY PROGRAMS, AND ADEQUATE LOCKER AND SHOWER FACILITIES. CITED AS AN EXAMPLE IS THE SPACE AND FACILITIES REQUIREMENTS FOR A PHYSICAL EDUCATION PROGRAM SET UP BY THE STATE DEPARTMENT OF EDUCATION OF CALIFORNIA. PHYSICAL EDUCATION FACILITIES SHOULD BE USED DURING EVENINGS, ON WEEKENDS, AND DURING THE SUMMER MONTHS. THE ARTICLE RECOMMENDS THAT PHYSICAL EDUCATION FACILITIES BE PLANNED FOR INSTRUCTION, SCHOOL RECREATION AND COMMUNITY USE. THIS ARTICLE APPEARED IN THE MAY, 1965 ISSUE OF AMERICAN SCHOOL AND UNIVERSITY. COPIES MAY BE OBTAINED FROM ARNOLD BLOOM, EDITOR, BUTTENHEIM PUBLISHING CORP., 757 THIRD AVENUE, NEW YORK, N.Y. 10017. (GM)

Availability:

Buttenheim Publishing Corp.
757 Third Avenue
New York, N. Y. 10017

ERIC/CEF DOCUMENT NO. EF002343 ED 25918 DISPOSITION-CERS 1

CHALLENGE--A REPORT SUGGESTING HOW AN OLD SCHOOL CAN CONTINUE TO SERVE YOUTH IF THE EDUCATIONAL PROGRAM IS THE PRIME CONSIDERATION

RESEARCH COUN. OF GREAT CITIES PROG. FOR SCH. IMPROV., CHICAGO, ILL.

049 PAGES

DESCRIPTORS- *ARCHITECTURAL PROGRAMING, *CLUSTER GROUPING, *HIGH SCHOOL DESIGN, *SCHOOL BUILDINGS, *SCHOOL CONSTRUCTION, ATHLETIC FIELDS, EDUCATIONAL DEMAND, EDUCATIONAL PARKS, HIGH SCHOOL CURRICULUM, HIGH SCHOOLS, INSTRUCTIONAL INNOVATION, SCHOOL LOCATION

WESTERN HIGH SCHOOL IN WASHINGTON D. C. FIRST OPENED ITS DOORS IN 1890. IT IS STILL A STRUCTURALLY SOUND BUILDING BUT CANNOT, AS IT IS PRESENTLY DESIGNED, HOPE TO FULFILL THE EDUCATIONAL PROGRAMS OF THE 1970S. DEMANDS FOR CHANGE HAVE COME FROM STUDENTS, FACULTY, PARENTS, AND THE COMMUNITY AT LARGE. AS ENVISAGED, THE NEW PROGRAM WOULD BE AN INQUIRY OR PROBLEM-SOLVING APPROACH TO EDUCATION USING A SERIES OF THREE OR FOUR CLUSTERS OF CLASSROOMS, SEMINAR ROOMS, INDEPENDENT STUDY AREAS, AND FACULTY OFFICES TO HOUSE THE PROGRAM. TEN DIFFERENT ALTERNATIVE ARCHITECTURAL SOLUTIONS ARE OFFERED RANGING FROM MINOR ALTERATIONS TO THE PRESENT BUILDING TO THE CONSTRUCTION OF AN EDUCATIONAL PARK. PLANS AND SCHEMATIC DIAGRAMS ARE PICTURED FOR EACH OF THE SCHEMES. ROUGH COST ESTIMATES ARE GIVEN AND SPACE NEEDS FOR EACH PART OF THE EDUCATIONAL PROGRAMS CHARTED. ALSO INCLUDED ARE THEN AND NOW PHOTOGRAPHS OF THE EXTERIOR AND RECENT PHOTOGRAPHS OF THE INTERIOR OF THE SCHOOL BUILDING. BASIC TO ALL OF THE ALTERNATIVES CONSIDERED IS THE CONVERSION, NOT THE REPLACEMENT, OF THE PRESENTLY EXISTING FACILITY. (NI)

Order from EDRS as: ED 25918

MF $0.25 HC $2.55

ERIC/CEF DOCUMENT NO. EF002154 DISPOSITON-UFRC 1

1961-1968 NEW CONSTRUCTION REPORT

NATIONAL ASSOCIATION OF PHYSICAL PLANT ADMINISTRATORS, RICHMOND, INDIANA

PUBLISHED - MARCH 1968

065 PAGES

DESCRIPTORS - *COMPARATIVE STATISTICS; *CONSTRUCTION COSTS; *HIGHER EDUCATION; *SPACE CLASSIFICATION; *SURVEYS; ANCILLARY SERVIES; AUDITORIUMS; CLASSROOMS; DORMITORIES; LABORATORIES; LIBRARIES; MEDICAL SCHOOLS; PARKING FACILITIES; PHYSICAL EDUCATION FACILITIES; STUDENT UNIONS

137 NAPPA COLLEGES AND UNIVERSITIES PROVIDED DATA FOR THIS SUMMARY. PROJECTS ARE SUMMARIZED BY THIRTEEN BUILDING CLASSIFICATIONS. UNDER EACH CLASSIFICATION THE FOLLOWING INFORMATION HEADINGS ARE USED--(1) NAME OF INSTITUTION, (2) PROJECT COMPLETION DATE, (3) GROSS SQUARE FEET, (4) NET ASSIGNABLE AREA, (5) CONSTRUCTION COSTS, (6) NUMBER OF STORIES, (7) TYPE OF CONSTRUCTION-STRUCTURAL STEEL FRAME, REINFORCED CONCRETE FRAME, LOAD BEARING MASONRY, AND WOOD FRAME, AND (8) PRIMARY FUNCTION HOUSED AND CAPACITY. THE APPENDIX CONTAINS DEFINITIONS OF THE CENTRAL TERMS USED--GROSS AREA, NET AREA, AND ASSIGNABLE AREA. (RLP)

Availability:

National Association of Physical Plant Administrators
c/o John H. Sweitzer
Earlham College
Richmond, Indiana 47374

ERIC/CEF DUCUMENT NO. EF001727 DISPOSITION-UFRC 1

SPACE GUIDELINES FOR PHYSICAL EDUCATION

WISCONSIN COORDINATING COMMITTEE FOR HIGHER EDUCATION, MADISON

PUBLISHED-MAR66

REPORT/SERIES NO.- CCHE-17

004 PAGES

DESCRIPTORS- *ATHLETIC FIELDS, *FACILITY GUIDELINES, *FACILITY REQUIREMENTS, *HIGHER EDUCATION, *PHYSICAL EDUCATION FACILITIES, ATHLETIC ACTIVITIES, PHYSICAL EDUCATION, PHYSICAL RECREATIONAL ACTIVITIES, SPACE CLASSIFICATION, SPACE UTILIZATION

A PROCEDURE FOR DEVELOPING SPACE GUIDELINES FOR PHYSICAL EDUCATION ACTIVITIES IS PRESENTED. THE RESULTS OF A QUESTIONNAIRE FROM TWO WISCONSIN STATE UNIVERSITIES SUGGESTS THAT THE INDOOR AND OUTDOOR SPACE REQUIREMENTS OF THE 1960 ILLINOIS STUDY SATISFY MINIMAL NEEDS FOR PHYSICAL EDUCATION ACTIVITIES. SUGGESTED GUIDELINES FOR INDOOR AND OUTDOOR PHYSICAL EDUCATION SPACE NEEDS BASED ON STUDENT ENROLLMENT ARE GIVEN. (HH)

Availability:

Wisc. Coord. Council for Higher Educ.
732 N. Midvale Blvd.
Madison, Wisconsin 53703

ERIC/CEF DOCUMENT NO. EF001729 DISPOSITION-UFRC 1

SPACE GUIDELINES FOR PHYSICAL EDUCATION (SUPPLEMENTARY GUIDELINES FOR ACADEMIC MAJORS)

WISCONSIN COORDINATING COMMITTEE FOR HIGHER EDUCATION, MADISON

PUBLISHED-MAY66

REPORT/SERIES NO.- CCHE-34

002 PAGES

DESCRIPTORS- *ATHLETIC FIELDS, *FACILITY GUIDELINES, *FACILITY REQUIREMENTS, *HIGHER EDUCATION, *PHYSICAL EDUCATION FACILITIES, ATHLETIC FACILITIES, COLLEGE MAJORS, PHYSICAL EDUCATION, SPACE CLASSIFICATION, SPACE UTILIZATION

GUIDELINES FOR PHYSICAL EDUCATION ON CAMPUSES WHERE STUDENTS PURSUE A CURRICULUM LEADING TO ACADEMIC DEGREES IN PHYSICAL EDUCATION IS PRESENTED. THE GUIDELINE DEVELOPED IS BASED ON ACTIVITY HOURS PER WEEK, SQUARE FEET PER ACTIVITY FACILITY, STUDENTS PER ACTIVITY FACILITY, HOURS PER WEEK AND STATION USE. (HH)

Availability:

Wisc. Coord. Council for Higher Educ.
732 N. Midvale Blvd.
Madison, Wisconsin 53703

ERIC/CEF DOCUMENT NO. EF001302 DISPOSITION-CERS 3

FACILITIES FOR PHYSICAL EDUCATION

FLORIDA STATE DEPARTMENT OF EDUCATION, TALLAHASSEE

PUBLISHED- 54

REPORT/SERIES NO.- BULL-13A

074 PAGES

DESCRIPTORS- *ATHLETIC PROGRAMS, *PHYSICAL EDUCATION, *PHYSICAL EDUCATION FACILITIES, *PHYSICAL FACILITIES, *RECREATIONAL FACILITIES, ATHLETIC ACTIVITIES, CLASSROOMS, EDUCATIONAL FACILITIES, EDUCATIONAL PLANNING, EQUIPMENT STORAGE, EXTRAMURAL ATHLETIC PROGRAMS, GYMNASIUMS, HEATING, INTRAMURAL ATHLETIC PROGRAMS, LIGHTING, OUTDOOR EDUCATION, SCHOOL DESIGN, SCHOOL PLANNING, SCHOOL SITE, SITE DEVELOPMENT, SITE PLANNING, TRACT, TREES, VENTILATION

THIS BOOKLET PROVIDES SPECIFIC GUIDES FOR THE PLANNING AND CONSTRUCTION OF INDOOR AND OUTDOOR PHYSICAL EDUCATION FACILITIES. FOLLOWING A PRESENTATION OF SOME OF THE MORE PERTINENT PRINCIPLES OF SCHOOLHOUSE PLANNING, DETAILED GUIDELINES ARE PRESENTED FOR PHYSICAL EDUCATION FACILITIES (SHOWER AND DRESSING FACILITIES, SWIMMING POOLS, INDOOR PLAY AREAS, OUTDOOR PLAY AREAS). CERTAIN MINIMUM AND MAXIMUM STANDARDS ARE SUGGESTED, BUT EMPHASIS IS GIVEN TO THE CHARACTERISTICS OF THE VARIOUS MATERIALS OR TYPES OF ARRANGEMENTS.(FS)

Availability:

Florida State Department of Education
Tallahasse, Florida 32304

ERIC/CEF DOCUMENT NO. EF000926 ED 21396 DISPOSITION-CERS 1

PHYSICAL EDUCATION (ELEMENTARY SCHOOLS FACILITIES AND BASIC EQUIPMENT. 1965)

MASSACHUSETTS SCHOOL BUILDINGS ASSISTANCE COMMISSION. BOSTON

PUBLISHED- 65

012 PAGES

DESCRIPTORS- *ELEMENTARY SCHOOLS. *EQUIPMENT. *GYMNASIUMS. *PHYSICAL EDUCATION FACILITIES. PHYSICAL EDUCATION. PLAYGROUNDS

THIS REPORT IS AN OUTLINE OF RECOMMENDED SPECIFICATIONS FOR THE ELEMENTARY SCHOOL PHYSICAL EDUCATION PROGRAM. THE INDOOR PHYSICAL EDUCATION FACILITY (GYMNASIUM) SHOULD BE LOCATED AWAY FROM THE CLASSROOM AREA AND READILY ACCESSIBLE TO OUTSIDE PLAY AREAS. THE SIZE OF THE GYMNASIUM SHOULD BE DETERMINED BY THE NUMBER AND SIZE OF THE CLASSES THAT USE IT. THE FLOOR, WALLS AND CEILING SHOULD BE CONSTRUCTED OF DURABLE MATERIALS. MOVABLE PARTITIONS MAY BE DESIRABLE FOR MULTIPLE CLASS USE OF THE GYMNASIUM. NON-GLARE, SHADOW-FREE LIGHTING SHOULD BE PROVIDED. THE LOCKER ROOM IS TO BE EQUIPPED WITH ADEQUATE DRAINAGE AND VENTILATION, FULL LENGTH LOCKERS IN OUTSIDE WALLS, COVERED RADIATORS AND PIPES, AND BENCHES WHICH ARE FIXED TO THE FLOOR. THE SHOWER ROOM SHOULD BE ADJACENT TO THE LOCKER ROOM. THE OUTDOOR PLAY AREAS SHOULD BE PROPORTIONATE TO SCHOOL ENROLLMENT. THE REPORT RECOMMENDS AMPLE SPACE BE PROVIDED FOR GAME AREAS. INDOOR AND OUTDOOR LISTS OF EQUIPMENT ARE INCLUDED AS WELL AS A SELECTED BIBLIOGRAPHY. (GM)

Order from EDRS as: ED 21396

MF $0.25 HC $0.56

ERIC/CEF DOCUMENT NO. EF000928 ED 21397 DISPOSITION-CERS 1

PHYSICAL EDUCATION (SECONDARY SCHOOLS FACILITIES AND BASIC EQUIPMENT, 1966)

MASSACHUSETTS SCHOOL BUILDINGS ASSISTANCE COMMISSION, BOSTON

019 PAGES

DESCRIPTORS- *EQUIPMENT, *HIGH SCHOOLS, *RECREATIONAL FACILITIES, *SCHOOL PLANNING, *SECONDARY SCHOOLS, ATHLETIC ACTIVITIES, ATHLETIC PROGRAMS, EQUIPMENT STORAGE, EXTRAMURAL ATHLETIC PROGRAMS, GYMNASIUMS, INTRAMURAL ATHLETIC PROGRAMS, JUNIOR HIGH SCHOOLS PHYSICAL EDUCATION, PHYSICAL EDUCATION FACILITIES, SCHOOL DESIGN, SENIOR HIGH SCHOOLS

JUNIOR AND SENIOR HOGH SCHOOL GYMNASIUMS SHOULD BE LOCATED AWAY FROM CLASSROOMS AND NEAR OUTDOOR PLAY AREAS. JUNIOR HIGH SCHOOL GYMNASIUMS SHOULD BE A MINIMUM OF 84' X 98' X 22'. SENIOR HIGH GYMNASIUMS SHOULD BE AT LEAST 90' X 106' X 24'. AREAS SHOULD BE DIVISIBLE. PROVISION SHOULD BE MADE FOR BASKETBALL, VOLLEYBALL, BADMINTON, PADDLE TENNIS, SEATING, AND TEACHING AREAS. OTHER INDOOR AREAS RECOMMENDED ARE SPACE FOR GYMNASTICS, REMEDIAL WORK, HEALTH, AND WRESTLING, AND A SIMULATED OUTDOOR AREA. SPECIAL ATTENTION SHOULD BE GIVEN TO THE FLOOR, WALLS, CEILING, PARTITIONS, LIGHTING, LOCKER, SHOWER, DRYING, TOWEL, TEAM, TRAINING, AND STORAGE ROOMS AND OFFICES. OUTDOOR FACILITIES SHOULD PROVIDE 20 ACRES PLUS AN ADDITIONAL ACRE PER 100 PUPILS FOR JUNIOR HIGH PUPILS AND SENIOR HIGH PUPILS SHOULD HAVE A SITE OF 30 ACRES PLUS ONE ACRE PER 100 PUPILS. HARDTOP AREAS, TENNIS COURTS, AND GRASSY AREAS SHOULD BE INCLUDED. PROVISIONS SHOULD BE MADE FOR INTERSCHOLASTIC SPORTS. OUTDOOR AND INDOOR EQUIPMENT LISTS AS WELL AS A BIBLIOGRAPHY ARE PROVIDED. (RH)

Order from EDRS as: ED 21397

MF $0.25 HC $0.84

ERIC/CEF DOCUMENT NO. EF001370 DISPOSITION-UFRC 2

A STUDY OF THE PRESENT STATUS, FUTURE NEEDS AND RECOMMENDED STANDARDS REGARDING SPACE USED FOR HEALTH, PHYSICAL EDUCATION, PHYSICAL RECREATION AND ATHLETICS

BY- SAPORA, A. V.
ILLINOIS UNIVERSITY, URBANA-CHAMPAIGN, COLLEGE OF PHYSICAL EDUCATION BUILDINGS AND FIELDS COMMITTEE

PUBLISHED-MAY60

252 PAGES

DESCRIPTORS- *ATHLETIC PROGRAMS, *FACILITY GUIDELINES, *FACILITY UTILIZATION RESEARCH, *PHYSICAL EDUCATION, *HIGHER EDUCATION, FACILITY INVENTORY, ATHLETIC FIELDS, GYMNASIUMS, HEALTH FACILITIES, RECREATIONAL FACILITIES

A STUDY OF THE PRESENT STATUS, FUTURE NEEDS AND RECOMMENDED STANDARDS REGARDING SPACE USED FOR HEALTH, PHYSICAL EDUCATION, PHYSICAL RECREATION AND ATHLETICS. THIS STUDY WAS CARRIED OUT AT THE UNIVERSITY OF ILLINOIS TO ASCERTAIN THE PRESENT STATUS AND FUTURE PHYSICAL FACILITY STATE OF THE COLLEGE OF PHYSICAL EDUCATION AND THE ATHLETIC ASSOCIATION ON THE URBANA-CHAMPAIGN CAMPUS. THE REPORT WAS PREPARED IN FOUR STEPS--(1) A STATEMENT DESCRIBING THE SCOPE, PRINCIPLES, AND EDUCATIONAL OBJECTIVES OF THE UNITS INVOLVED, (2) SURVEYING THE EXISTING PHYSICAL ACTIVITY PLAY SPACE AND RELATED FACILITIES, MEASURING SPACE AND OBTAINING ACCURATE SUMMARIES OF AMOUNTS AND LOCATIONS OF SPACE AT URBANA AND THE OTHER BIG TEN UNIVERSITIES, (3) CLASSIFYING VARIOUS TYPES OF SPACE, AND (4) DEVELOPING RECOMMENDATIONS REGARDING PRESENT AND FUTURE SPACE NEEDS. COMPLETED TALLY FORMS AND DATA SHEETS ARE GIVEN FOR ANY UNIT RELATED TO INDOOR OR OUTDOOR PHYSICAL EDUCATION. (HH)

Availability:

University of Illinois
College of Physical Education
Urbana, Illinois 61801

RECREATION AREAS AND FACILITIES

ERIC/CEF DOCUMENT NO. EF000653 DISPOSITION-EDC- 2

PROBLEMS OF RECREATIONAL FACILITIES

BY- SNAPP, E. A.
HOUSTON UNIVERSITY, HOUSTON, TEXAS, DEPARTMENT OF ADMINISTRATION AND SUPERVISION

PUBLISHED- 61
IN- PROCEEDINGS, SCHOOL FACILITIES CONFERENCE, HOUSTON, TEXAS, MARCH 29, 1961

3 PAGES

DESCRIPTORS- *PHYSICAL EDUCATION, *PHYSICAL EDUCATIONAL FACILITIES, *RECREATIONAL ACTIVITIES, *RECREATIONAL FACILITIES, *RECREATIONAL PROGRAMS, AUDITORIUMS, GYMNASIUMS

ADEQUATE RECREATIONAL FACILITIES SHOULD BE CAREFULLY PLANNED AND PROGRAMMED BY SCHOOL ADMINISTRATORS AND EMPHASIS SHOULD BE PLACED ON INTRAMURAL RATHER THAN INTERSCHOLASTIC PROGRAMS. COMMUNITY SWIMMING POOLS, BOWLING ALLEYS, AND GOLF COURSES SHOULD BE MADE AVAILABLE FOR USE BY SCHOOLS. AN INCREASED EMPHASIS SHOULD BE PLACED ON PARTICIPATION SPORTS RATHER THAN SPECTATOR SPORTS AND THE REQUIRED FACILITIES SHOULD BE MADE AVAILABLE. PROPERLY BUILT AND EQUIPPED FACILITIES SHOULD BE PROVIDED SO THE STUDENTS IN LATER LIFE WILL BE INCLINED TO ENGAGE IN HEALTHFUL, BODY-BUILDING ACTIVITIES. REHABILITATION OF EXISTING FACILITIES TO MEET FUTURE PROGRAMS IN PHYSICAL EDUCATION IS DIFFICULT AND COSTLY-HOWEVER, COLOR IS ONE ELEMENT THAT, CAREFULLY USED, CAN PUT NEW LIFE IN OLD BUILDINGS. MULTIPLE USE OF SPACE IS ALSO AN AREA OF MAJOR CONCERN. COMBINATION AUDITORIUM-GYMNASIUMS ARE DISCUSSED WITH A SUGGESTION THAT THE OLD AUDITORIUM-GYMNASIUM BE CONVERTED INTO AN AUDITORIUM RATHER THAN A GYMNASIUM. (RH)

Availability:

Houston University
Dept. of Administration & Supervision
Houston, Texas 77005

ERIC/CEF DOCUMENT NO. EF001586 DISPOSITION-CERS 2

OPEN SPACE AND RECREATION PLANNING 45TH ANNUAL SCHOOL ADMINISTRATORS CONFERENCE

BY- WILSON, WAYNE H.
PENNSYLVANIA SCHOOL STUDY COUNCIL, UNIVERSITY PARK

PUBLISHED-DEC67

REPORT/SERIES NO.- BULL.-VOL-1, NO.-4

OC5 PAGES

DESCRIPTORS- *CONSERVATION EDUCATION, *RECREATION, *RECREATIONAL FACILITIES, *SCHOOL SPACE, COMMUNITY RECREATION LEGISLATION, ENVIRONMENT, ENVIRONMENTAL INFLUENCES, LAND USE, LOCAL RECREATION LEGISLATION, SCHOOL LOCATION

NEW AND INCREASING NUMBERS OF DEMANDS FOR OPEN SPACE AREAS FOR RECREATIONAL PURPOSES ARE BECOMING INCREASINGLY ESSENTIAL FOR OUR HEALTH AND PLEASURE. PRESENTLY THERE IS A SERIOUS NEED FOR A BALANCE BETWEEN PRIVATE RESIDENTIAL DEMANDS AND PUBLIC REQUIREMENTS. SCHOOL ADMINISTRATORS SHOULD EVALUATE PLANTS IN THEIR SCHOOL DISTRICTS TO DETERMINE WHAT CONTRIBUTION THEY CAN MAKE TO THE PRESERVATION AND CREATION OF BEAUTY SPACES. ALSO, PUBLIC EDUCATION MAY BE A MEANS FOR INSTILLINGA KEEN AWARENESS OF PUBLIC RESPONSIBILITY IN THIS MATTER.

Availability:

Pennsylvania State University
College of Education
University Park, Pennsylvania 16802

ERIC/CEF DOCUMENT NO. EF002003 DISPOSITION-CERS 2

WILLIAMS SCHOOL-CITY RECREATION AND PARK SERVICES (AN APPRAISAL WITH RECOMMENDATIONS)

BY- CONRAD, C. CARSON AND KLUMB, JOHN J.
CALIFORNIA STATE DEPARTMENT OF EDUCATION, SACRAMENTO, BUREAU OF HEALTH, EDUCATION, PHYSICAL EDUCATION, AND RECREATION

PUBLISHED- 68

026 PAGES

DESCRIPTORS- *HEALTH EDUCATION, *PHYSICAL EDUCATION FACILITIES, *RECREATION, *STATE RECREATION LEGISLATION, *SCHOOL COMMUNITY COOPERATION, COMMUNITY RESOURCES, PARKS, PHYSICAL EDUCATION FACILITIES, PLAYGROUND, RECREATION FINANCES, RECREATIONAL FACILITIES, RECREATION PROGRAMS

A STUDY OF RECREATION NEEDS FOR A CALIFORNIA COMMUNITY PREPARED BY THE BUREAU OF HEALTH EDUCATION, PHYSICAL EDUCATION AND RECREATION OF THE STATE DEPARTMENT OF EDUCATION. SPECIFIC FINDINGS AND RECOMMENDATIONS ARE TIED TO FIVE CATEGORIES WHICH CONSTITUTE THE BASIS FOR COMMUNITY RECREATION SERVICES, ORGANIZATION AND ADMINISTRATION, FACILITIES, PROGRAM, PERSONNEL, AND FINANCES. APPENDICES INCLUDE A CHECKLIST FOR RECREATION ACTIVITIES, AND LAWS RELATING TO SCHOOL AND CITY RECREATION, AND PARKS. (FPO)

Availability:

California State Dept. of Education
Bureau of Health Ed., P.E., & Recreation
Sacramento, California 95814

ERIC/CEF DOCUMENT NO. EF000540 DISPOSITION-CERS 2

DESIGNING THE SCHOOL PLANT AS A COMMUNITY CENTER

STATE UNIVERSITY OF NEW YORK, ALBANY

PUBLISHED- 60
IN- I 135R-AP-60-3500(453011

013 PAGES

DESCRIPTORS- *COMMUNITY EDUCATION, *COMMUNITY SERVICES, *EDUCATIONAL FACILITIES, *SCHOOL DESIGN, *SCHOOL COMMUNITY COOPERATION, COMMUNITY RECREATION PROGRAMS, COMMUNITY SCHOOLS, ADULT EDUCATION, BUILDING DESIGN, CULTURAL CENTERS, SOCIAL RECREATION PROGRAMS, RECREATIONAL FACILITIES

SCHOOL PLANT PLANNING SHOULD PROVIDE FOR EDUCATIONAL, SOCIAL, CIVIC, RECREATIONAL, AND CULTURAL NEEDS OF THE ENTIRE COMMUNITY. FACTORS TO RECEIVE SPECIAL CONSIDERATION IN PLANNING ARE LOCATION OF FACILITIES, HEAT DISTRIBUTION, STORAGE SPACE, SPECIAL APPOINTMENTS AND SERVICE FEATURES, AND PROVISIONS FOR TOILET FACILITIES AND STORAGE OF OUTSIDE WRAPS.

Availability:

State Education Department
Division of School Buildings & Grounds
Albany, New York 12224

ERIC/CEF DOCUMENT NO. EF001990 ED 23267 DISPOSITION-CERS 1

SCHOOLS CAN BE GREEN ISLANDS

BY- WILSON, RUSSELL E. AND BROWN, JUNE S.

IN- MICHIGAN EDUCATION JOURNAL, APRIL 1965

004 PAGES

DESCRIPTORS- *CONSERVATION EDUCATION, *LAND USE, *SCHOOL COMMUNITY COOPERATION, *SITE DEVELOPMENT, *STATE FEDERAL AID, COMMUNITY RESOURCES, ELEMENTARY SCHOOLS, NATURAL RESOURCES, RECREATION, SCHOOL FUNDS

SITE DEVELOPMENT IS APPROACHED FROM A NON TRADITIONAL VIEW. UTILIZATION OF THE NATURAL RESOURCES OF THE SITE LOCATION FOR INSTRUCTIONAL PROGRAMS, BROAD COMMUNITY USE, AND INCREASED NEIGHBORHOOD VALUES ARE DISCUSSED. OPPORTUNITIES FOR ENHANCED INSTRUCTIONAL PROGRAMS INCLUDE CONSERVATION EDUCATION, BOTANY, FORESTRY AND GEOLOGY. PLANNING SUGGESTIONS AND A CHECKLIST OF FEDERAL, STATE AND PRIVATE FUNDING AND ASSISTANCE SOURCES IN ACQUIRING AND DEVELOPING SCHOOL SITES IS PROVIDED. THE SCHOOL SITE IS VIEWED AS A LONG TERM PUBLIC RESOURCE INVESTMENT AND RECREATIONALLY DEVELOPED SCHOOL SITES OF AT LEAST 15 ACRES ARE RECOMMENDED AS THE MOST ECONOMICAL INVESTMENTS IN THE LONG RUN. (FO)

Availability:

Michigan Education Assn.
Box 673
Lansing, Michigan 48903

ERIC/CEF DOCUMENT NO. EF000921 DISPOSITION-CERS 2

CREATIVE PLANNING OF PARKS AND PLAY AREAS FOR LEARNING, LIVING, AND LEISURE

BY- SCHNEIDER, RAYMOND C. AND BOYCE, R. DUDLEY AND PETERSON, TED T.
STANFORD UNIVERSITY, CALIFORNIA, SCHOOL PLANNING LABORATORY

PUBLISHED-DEC57

075 PAGES

DESCRIPTORS- *MAINTENANCE, *PLANNING, *RECREATIONAL ACTIVITIES, *RECREATIONAL FACILITIES, *RECREATIONAL PROGRAMS, COOPERATIVE PLANNING

THIS DOCUMENT IS A COLLECTION OF REPORTS ON DEVELOPING PARKS AND PLAY AREAS. UNDER THE GENERAL HEADING OF COOPERATIVE PLANNING FOR CREATIVE LEARNING, LIVING AND LEISURE ARE REPORTS ON SCHOOL AND COMMUNITY FACILITIES, TEAMWORK, MASTER PLANNING, RECREATION AND PARK DEVELOPMENTS FOR URBAN AREAS, MIDDLE-RIGID CITY RECREATIONAL PLANNING AND RURAL COMMUNITY COORDINATION OF LEISURE TIME AND RECREATION. THE SECOND MAJOR DIVISION OF THE DOCUMENT IS DESIGN FOR LEARNING, LIVING AND LEISURE. IN THIS AREA ARE REPORTS ON DESIGN FOR USE OF LEISURE TIME, IMAGINATIVE PLAY EXPERIENCE, AND ACCIDENT PREVENTION AND MAINTENANCE. BALANCING QUALITY AND ECONOMY IN SCHOOLHOUSE PLANNING IN THE FINAL MAJOR AREA INCLUDED IN THE STUDY. THIS SECTION CONTAINS REPORTS ON THE SELECTION OF RESILIENT FLOOR MATERIALS, TILE AND ITS USES, YEAR ROUND AIR CONDITIONING AND A MASTER PLAN FOR CLARK COUNTY, NEVADA SCHOOLS.

Availability:

School Planning Laboratory
Stanford University
Stanford, California 94305

ERIC/CEF DOCUMENT NO. EF000860 DISPOSITION-CERS 3

THE PARK-SCHOOL PLAN-ITS PLANNING AND MAINTENANCE

BY- EVERLY, ROBERT E.
ASSOCIATION OF SCHOOL BUSINESS OFFICIALS EVANSTON ILLINOIS

PUBLISHED-OCT55
IN- PROCEEDINGS ASSOCIATION OF SCHOOL BUSINESS OFFICIALS OF THE UNITED STATES AND CANADA 41ST CONVENTION CHICAGO, ILLINOIS OCT 16-20 1955

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